

Figure 5 Annotations

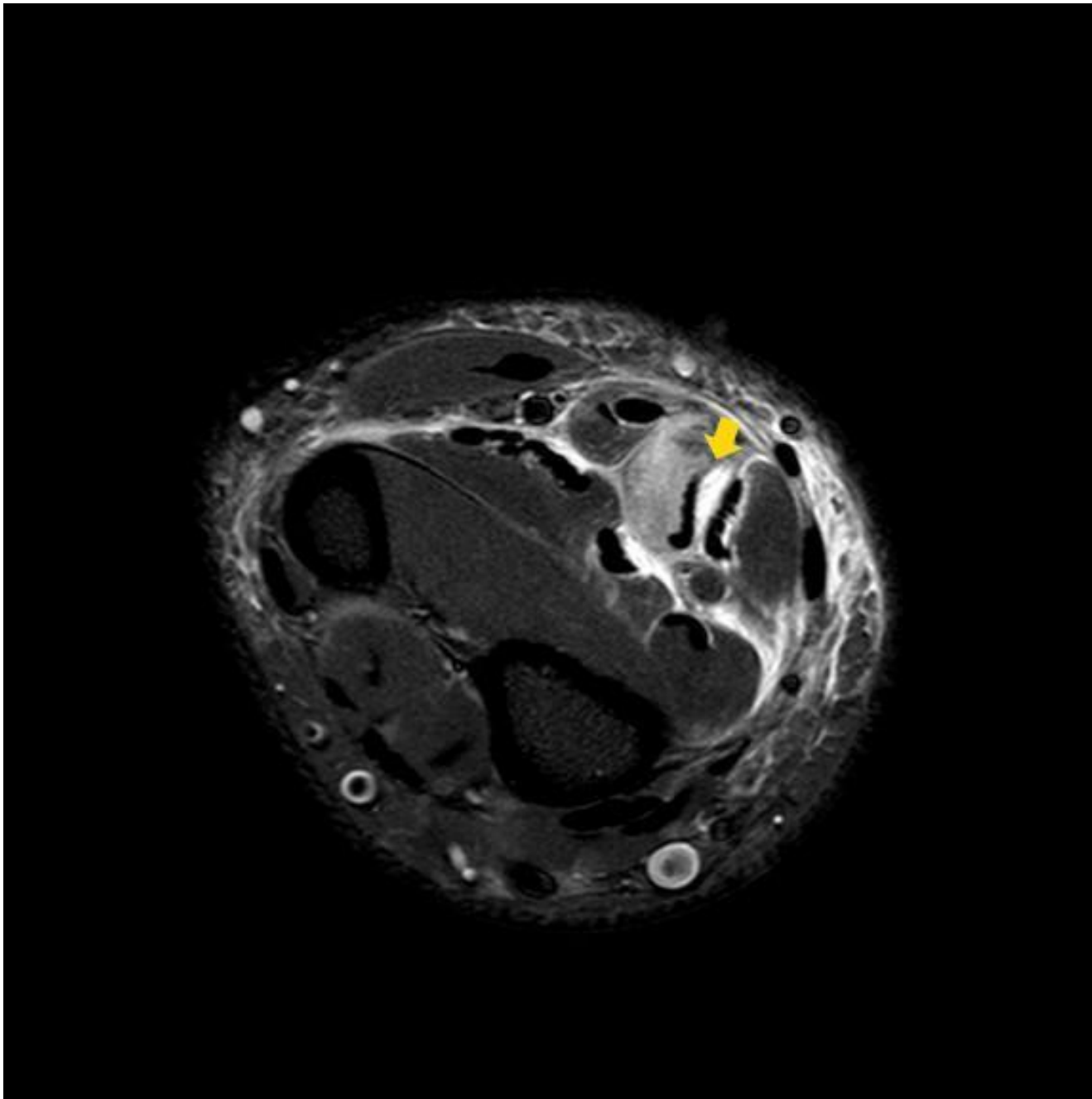


Figure 9 Annotations

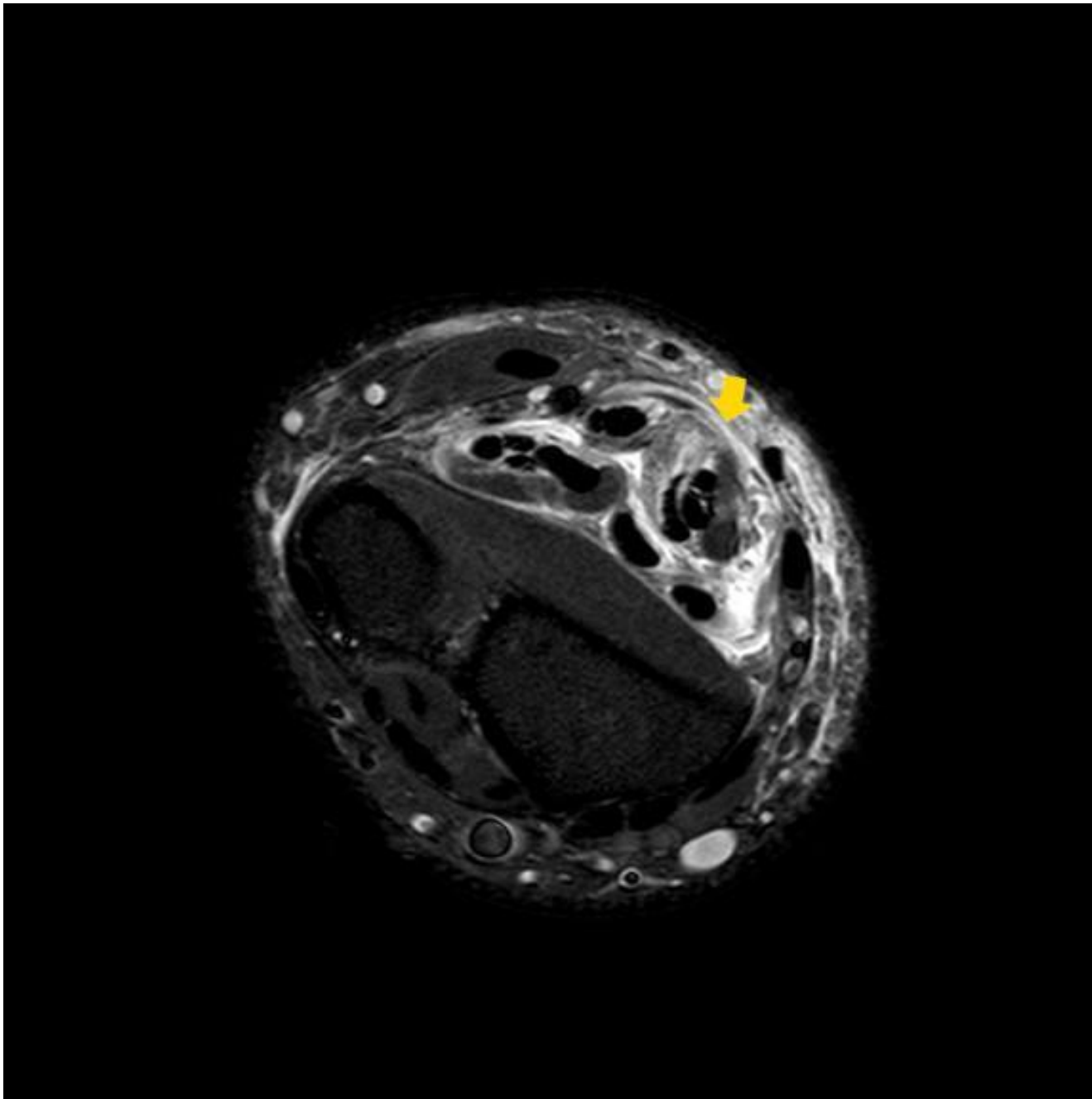


Figure 13 Annotations



Figure 21 Annotations

Diagnosis: EXAMINATION: MRI of the right wrist without contrast dated May 7, 2012

TECHNIQUE: Multiplanar multisequential magnetic resonance images of the right wrist were obtained without the administration of intravenous contrast.

FINDINGS: The study was protocol to include the distal aspect of the forearm and proximal wrist to evaluate the patient's site of pain. Joint effusion: None. Osseous structures: No evidence of fracture or osteonecrosis; no erosions or other evidence of arthritis. Interosseous scapholunate and lunotriquetral ligaments: Evaluation of the intrinsic ligaments is slightly limited due to larger field-of-view, however no tear is identified. Triangular fibrocartilage: No tear. Flexor and extensor tendons: There is significant edema in within the distal muscle belly of the flexor digitorum superficialis muscle with several focal areas of hemorrhage and tendon irregularity consistent with grade 2 strain. The location of the tear is approximately 5.9 cm proximal to the wrist crease. There is significant surrounding fascial edema. There is also mild strain of the of the flexor carpi radialis. The palmaris longus tendon is intact. The remainder of the flexor and extensor tendons demonstrate normal position, signal, and configuration. Carpal Tunnel: Normal; the position, morphology, and signal of the median nerve are normal. Guyon's canal: Normal; the ulnar nerve has a normal morphology and signal intensity.

IMPRESSION:

1. Grade 2 strain of the distal flexor digitorum superficialis muscle just proximal to the myotendinous junction, located approximately 5.9 cm from the wrist crease. Grade 2 strain of the distal flexor digitorum superficialis muscle and tendon. No tendon tear or retraction identified.
2. The palmaris longus tendon is intact.
3. Grade 1 strain of the distal flexor carpi radialis muscle.

Teaching Point

Muscle strain

Grade 1 - edema no disruption

Grade 2 - <50 % muscle disruption

Grade 3 - > 50% muscle disruption to full thickness tear