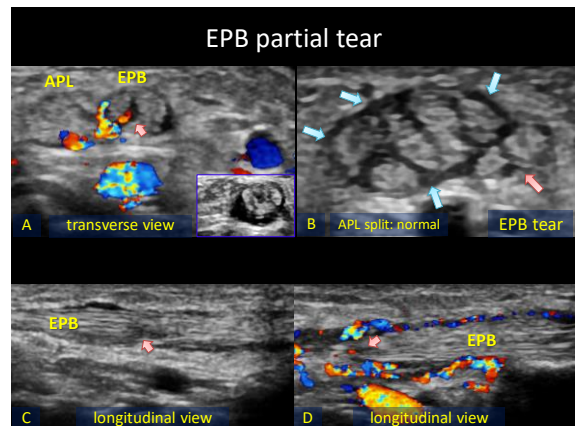
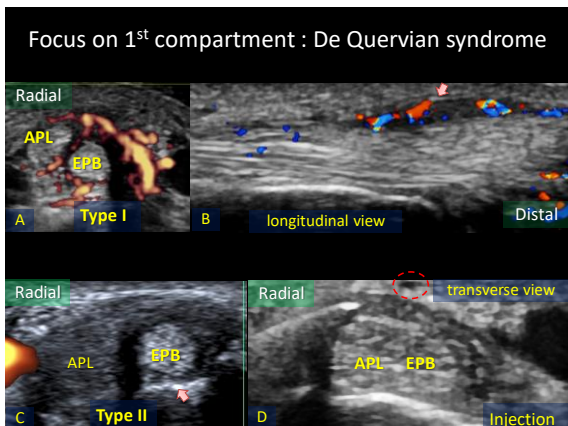
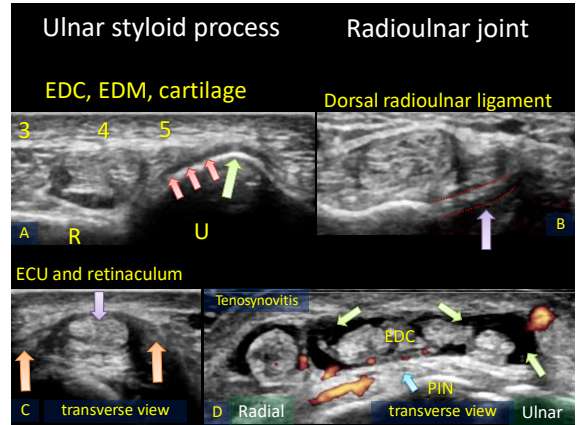
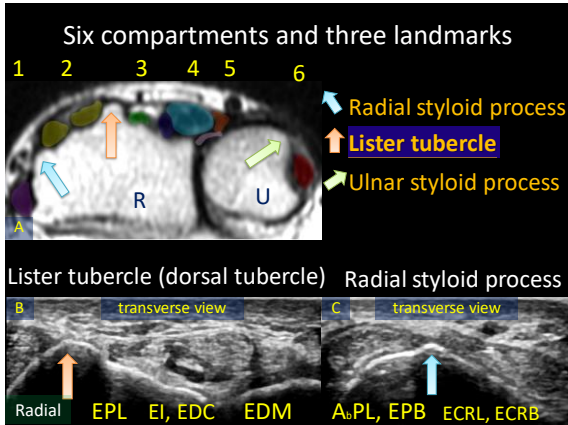
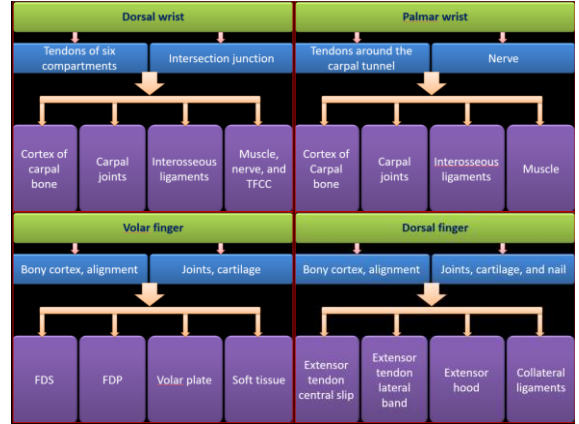
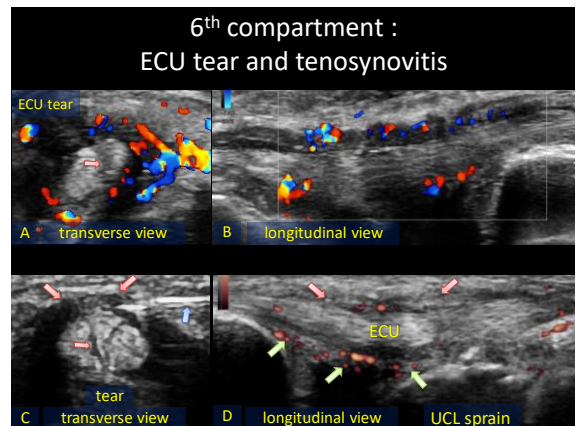
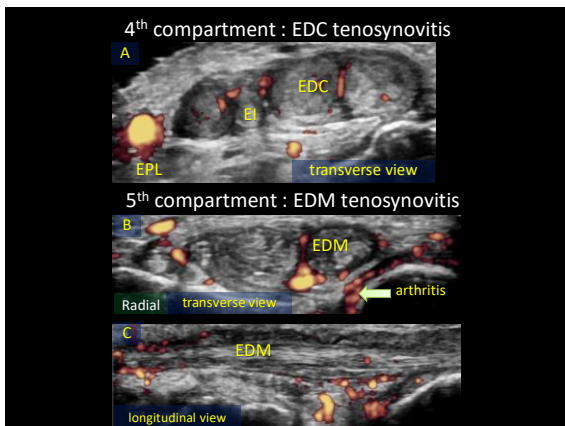
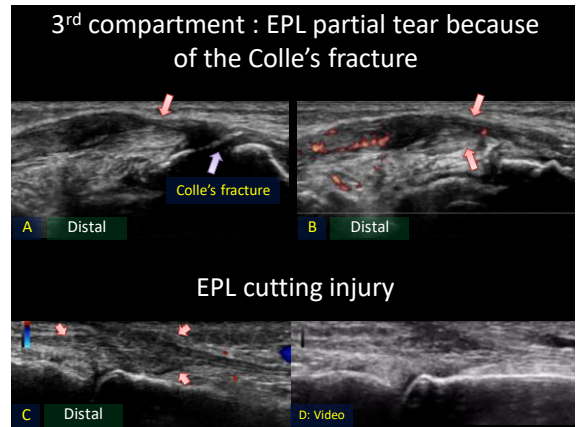
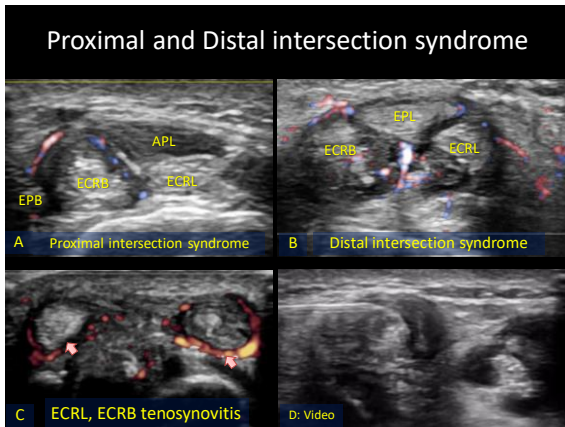
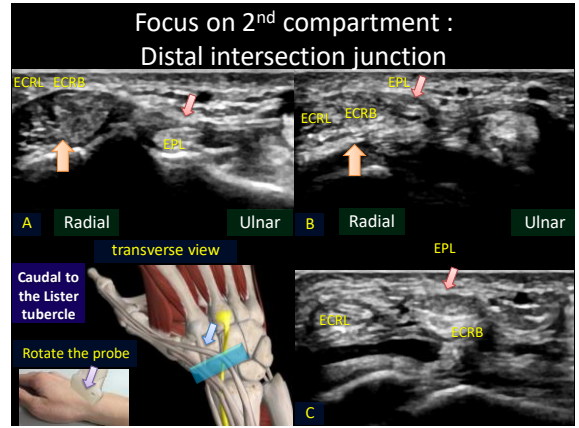
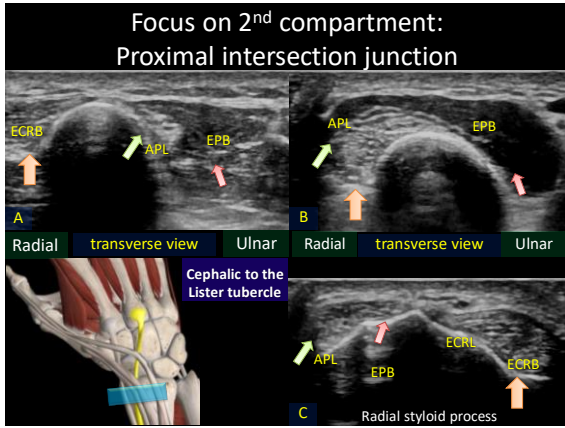


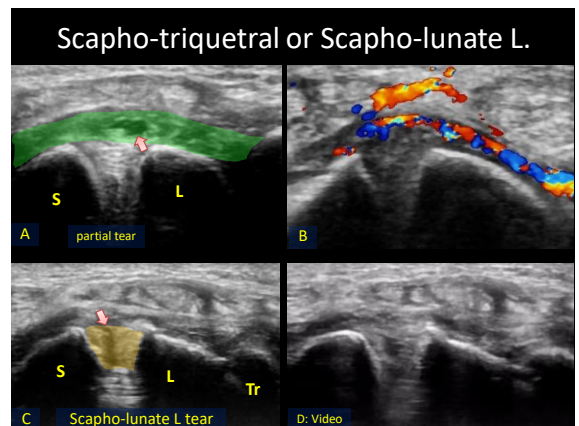
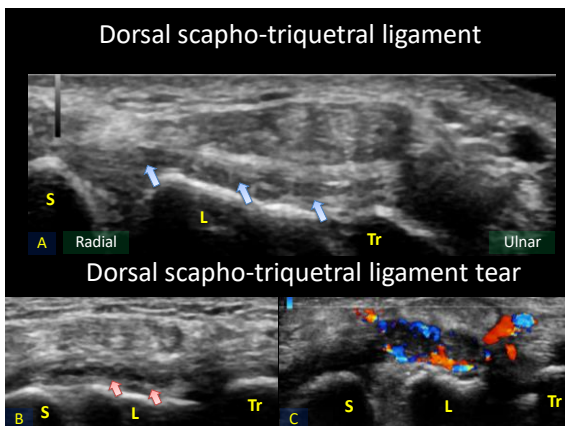
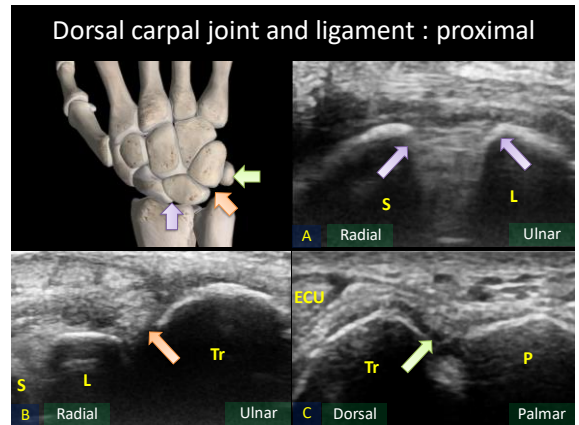
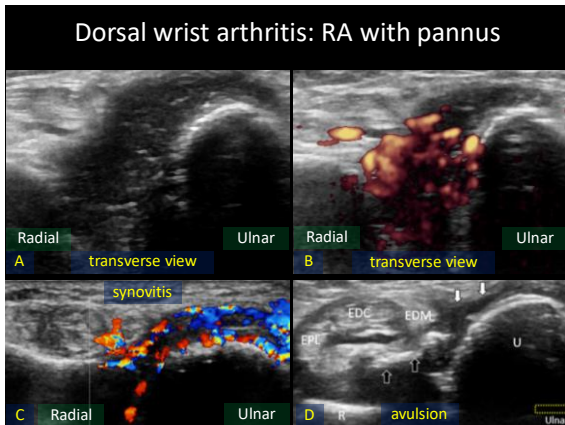
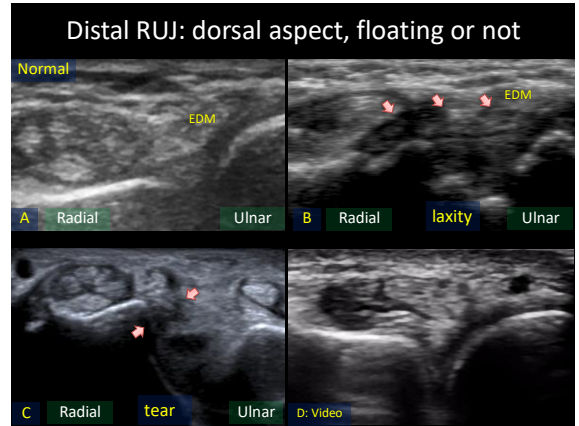
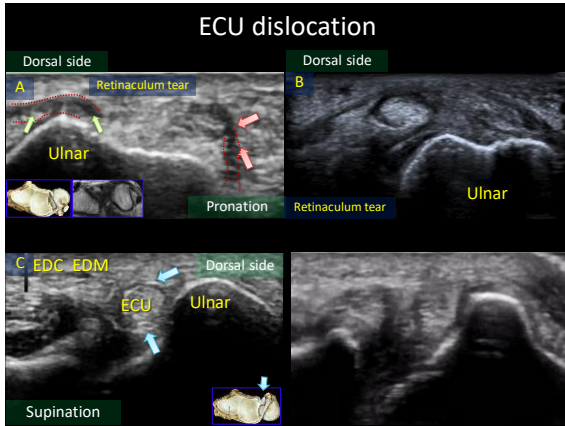
Advanced Ultrasound for Wrist and Finger: From Anatomy to Clinic

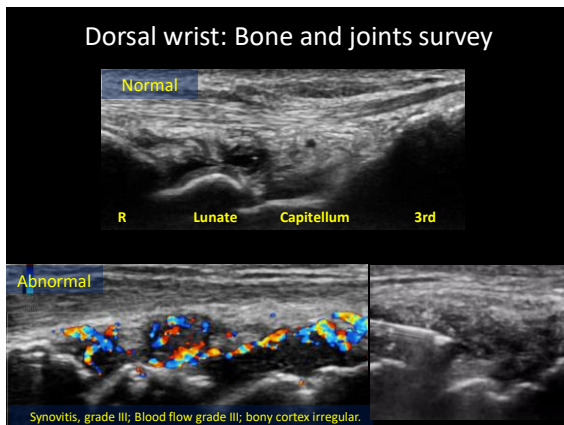
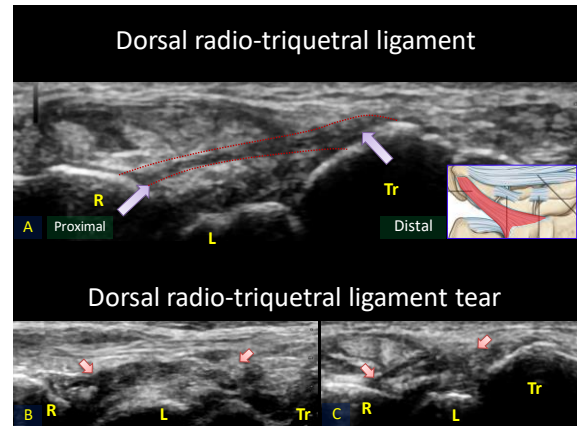
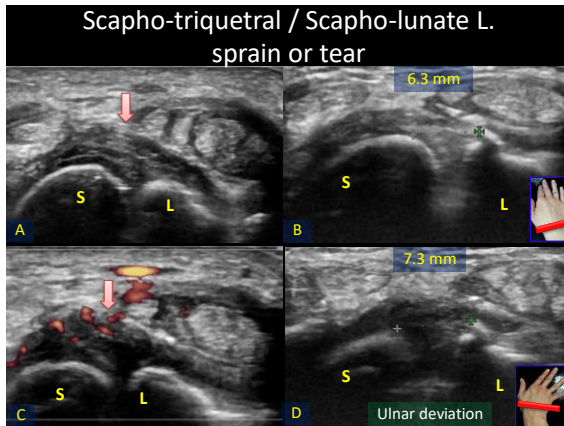
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Special Topic:
Triangular Fibrocartilage complex injury

Mechanism of traumatic cause

- The load exerted on the ulnar shaft and carpal joints.
- The most common scenario is fall on the pronated outstretched hand.

Mechanism of degenerative cause

- Repetitive pronation-supination as the axis of the twisting passes through the articular disc.
- Repetitive axial loading on the ulnar aspect of the wrist.

Physical examination

- Tenderness over palmar side of the ECU tendon → ulnar fovea sign.
- Pain at the ulnar aspect of wrist during passive forearm rotation
- Handgrip strength decrease
- Limited ROM in pronation-supination
- Dorsal radioulnar joint instability
- The ulnocarpal stress test → passive maximum ulnar deviation
- The screwdriver test → axial load on the ulnocarpal joint while rotating the forearm from full supination to pronation

Table 1. Ultrasonic classification of TFCC lesions

Class 1 trauma

- Central tear of the articular disc
- Ulnar attachment tear of the articular disc
- Radial attachment tear of the articular disc
- Horizontal tear of the articular disc
- TFCC component injury other than the articular disc: meniscus homologue, radioulnar ligaments, lunotriquetral ligament, ulnocollateral ligament and extensor carpi ulnaris tendon sheath injury.

Class 2 degeneration

- Articular disc wear
- A+ chondromalacia of the lunate or the ulna
- B+ articular disc rupture
- C+ lunotriquetral ligament rupture and cartilage abnormalities
- E+ ulnocarpal/radioulnar arthritis

