

# Laboratory Evaluation I

- Normal CBC, chemistry panel, thyroid function tests, RPR, ESR, ANA, RA factor.

# Electrophysiological Evaluation I

## (7-14-1986)

- EMG of the left upper limb showed signs of denervation (i.e., fibrillations, positive sharp waves) in all radial nerve innervated muscles distal to the supinator muscle. The brachioradialis and extensor carpi radialis muscles were normal. Median and ulnar nerve innervated muscles were normal.
- NCS of the left ulnar nerve showed mild slowing of ulnar nerve conduction velocity across the elbow.
- NCS of the left median nerve were normal.
- NCS of the left radial nerve showed no conduction of the deep branch of the nerve.

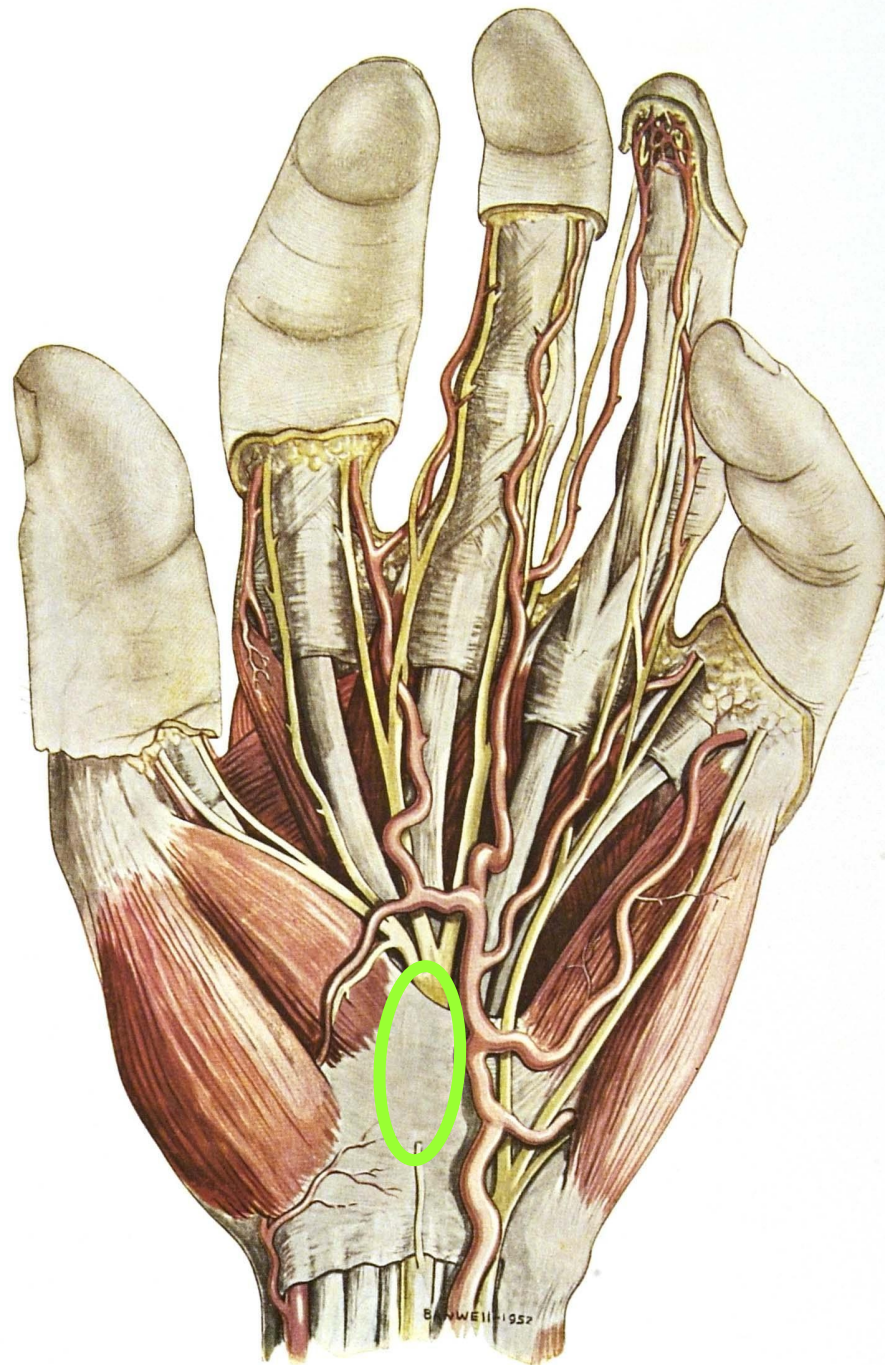
# Radial Nerve Decompression I (7-24-1986)

- On the basis of the patient's clinical and EMG/NCS findings, the patient underwent a left radial nerve exploration and decompression procedure.
- The main trunk of the radial nerve, the branches to the brachioradialis and extensor carpi radialis longus muscles, and its superficial (sensory) branch appeared normal. The initial 2 branches off the deep branch of the radial nerve to the extensor carpi radialis brevis and supinator muscles also appeared healthy.

# Radial Nerve Decompression II

## (7-24-1986)

- However, at the proximal border of the supinator muscle (i.e., the beginning of the “radial tunnel” as the nerve passes into and between the superficial and deep layers of the supinator), the deep radial nerve was compressed by a band of fibrous tissue.
- The supinator muscle and fibrous band were divided, and the deep radial nerve was decompressed.



## Ulnar Nerve (C8; T1)

(only muscles innervated by ulnar nerve are depicted)

