



Human Anatomy in Motion: Anterior Forearm Muscles

**Jennifer Chu, M.D.
Electrodiagnosis: An Anatomical and Clinical Approach
Lippincott, Phila, 1986**

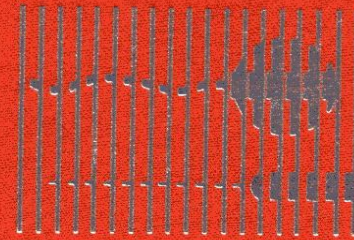
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Chu-Andrews
Johnson

Electrodiagnosis
An Anatomical and Clinical Approach

Electrodiagnosis

An Anatomical and Clinical Approach



Jennifer Chu-Andrews • Robert J. Johnson



Elsevier



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Compositor: Ruttle, Shaw & Wetherill, Inc.
Printer/Binder: Halliday Lithograph

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America. For information write J. B. Lippincott
Company, East Washington Square,
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6 5 4 3 2 1

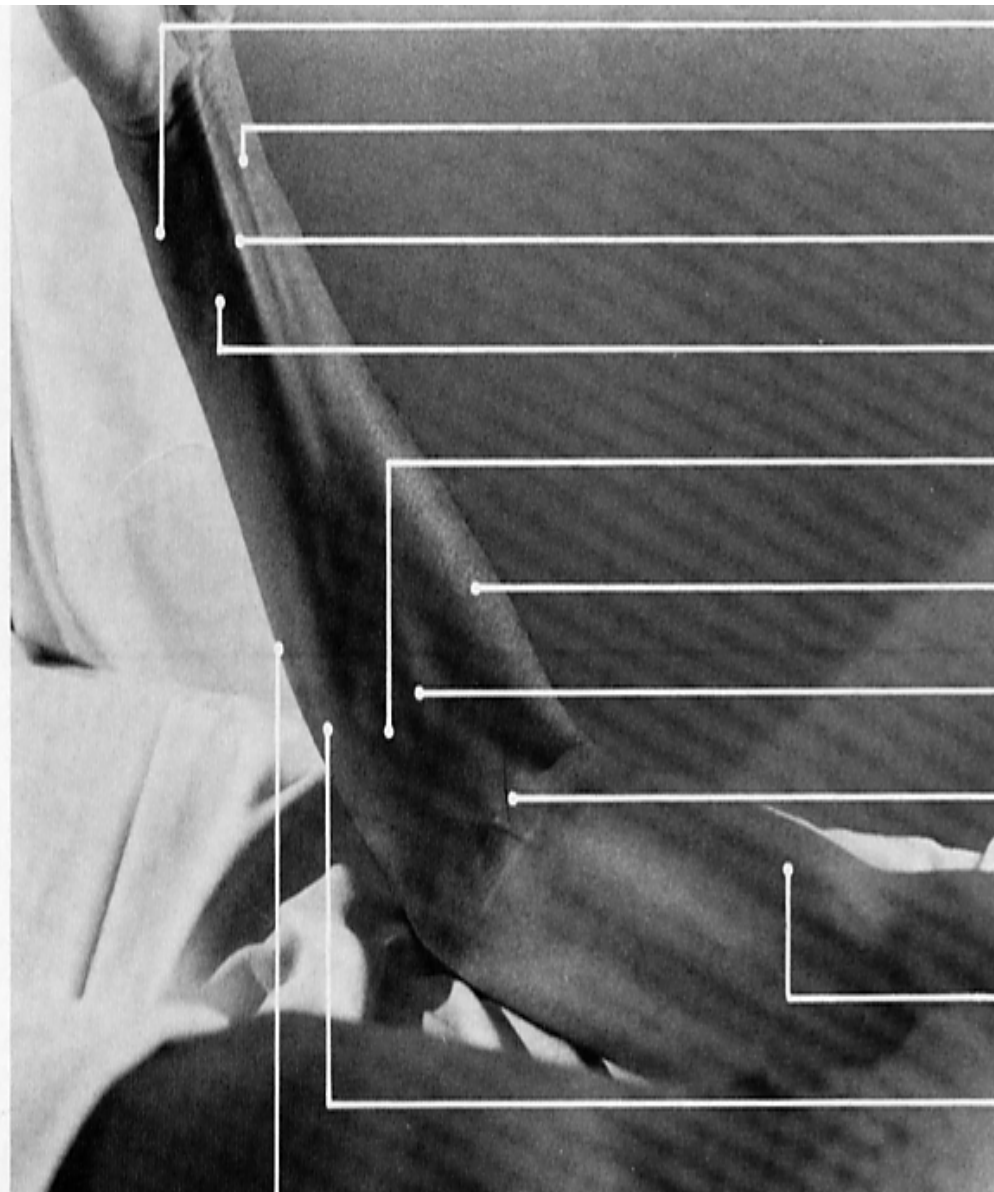
**Library of Congress Cataloging-in-
Publication Data**

Chu-Andrews, Jennifer.
Electrodiagnosis: an anatomical and clinical
approach.

Includes bibliographies and index.

1. Neuromuscular diseases—Diagnosis. 2.
Electrodiagnosis. 3. Electromyography. I.
Johnson, Robert J. (Robert Joseph), DATE. II.
Title. [DNLM: 1. Anatomy. 2. Electrodiagnosis.
WB 141 C5587e]

RC925.7.C48 1986 616.7'4'07547 85-19884
ISBN 0-397-50687-2



flexor carpi ulnaris (tendon)

flexor carpi radialis (tendon)

palmaris longus (tendon)

flexor digitorum superficialis (tendons)

flexor carpi radialis (belly)

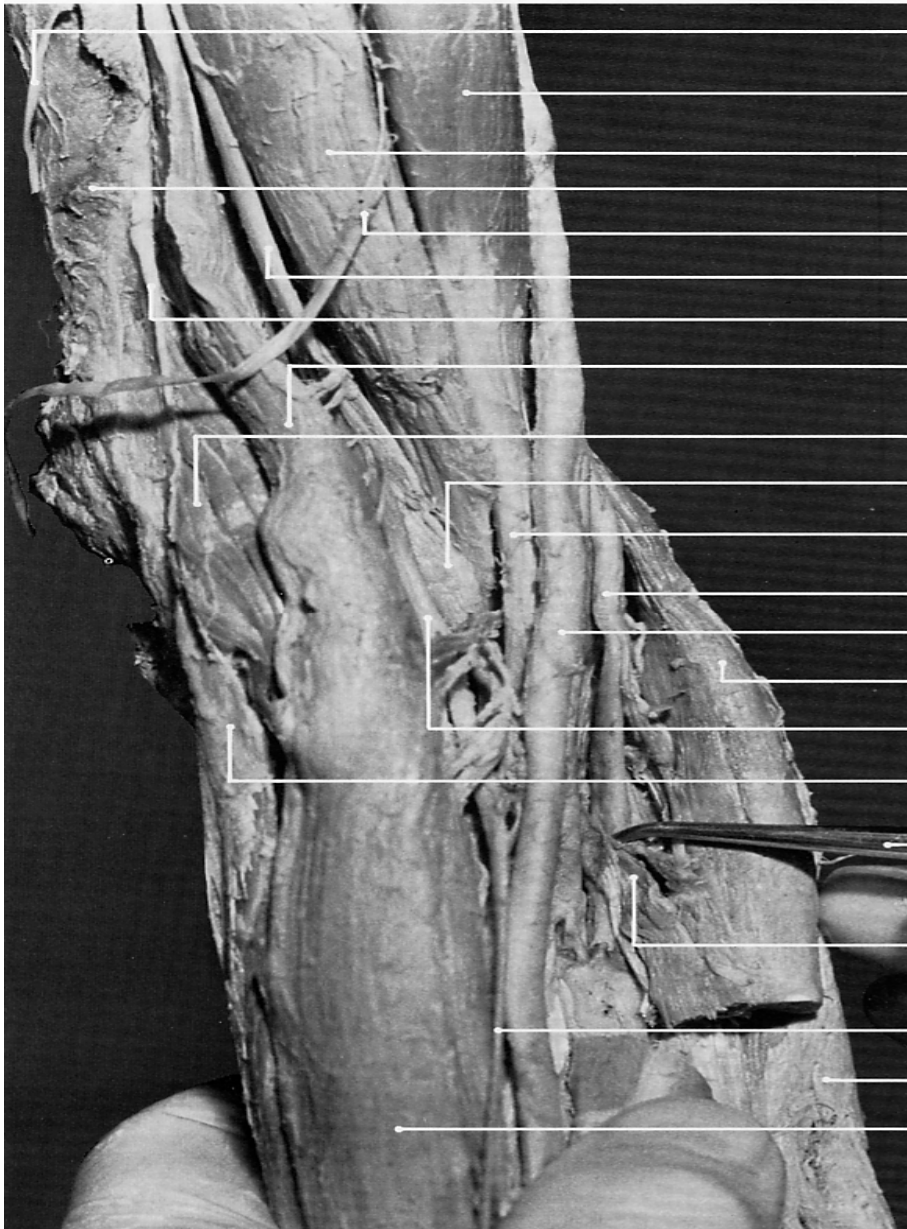
brachioradialis

pronator teres

bicipital aponeurosis

biceps brachii

flexor digitorum superficialis (belly)



lower lateral brachial cutaneous n.

biceps brachii

brachialis

triceps (lateral head)

lateral antebrachial cutaneous n.

radial n.

lateral intermuscular septum

brachioradialis

extensor carpi radialis longus

deep branch of radial n.

biceps brachii (tendon)

median n.

radial a.

pronator teres (superficial head)

superficial branch of radial n.

extensor carpi radialis brevis

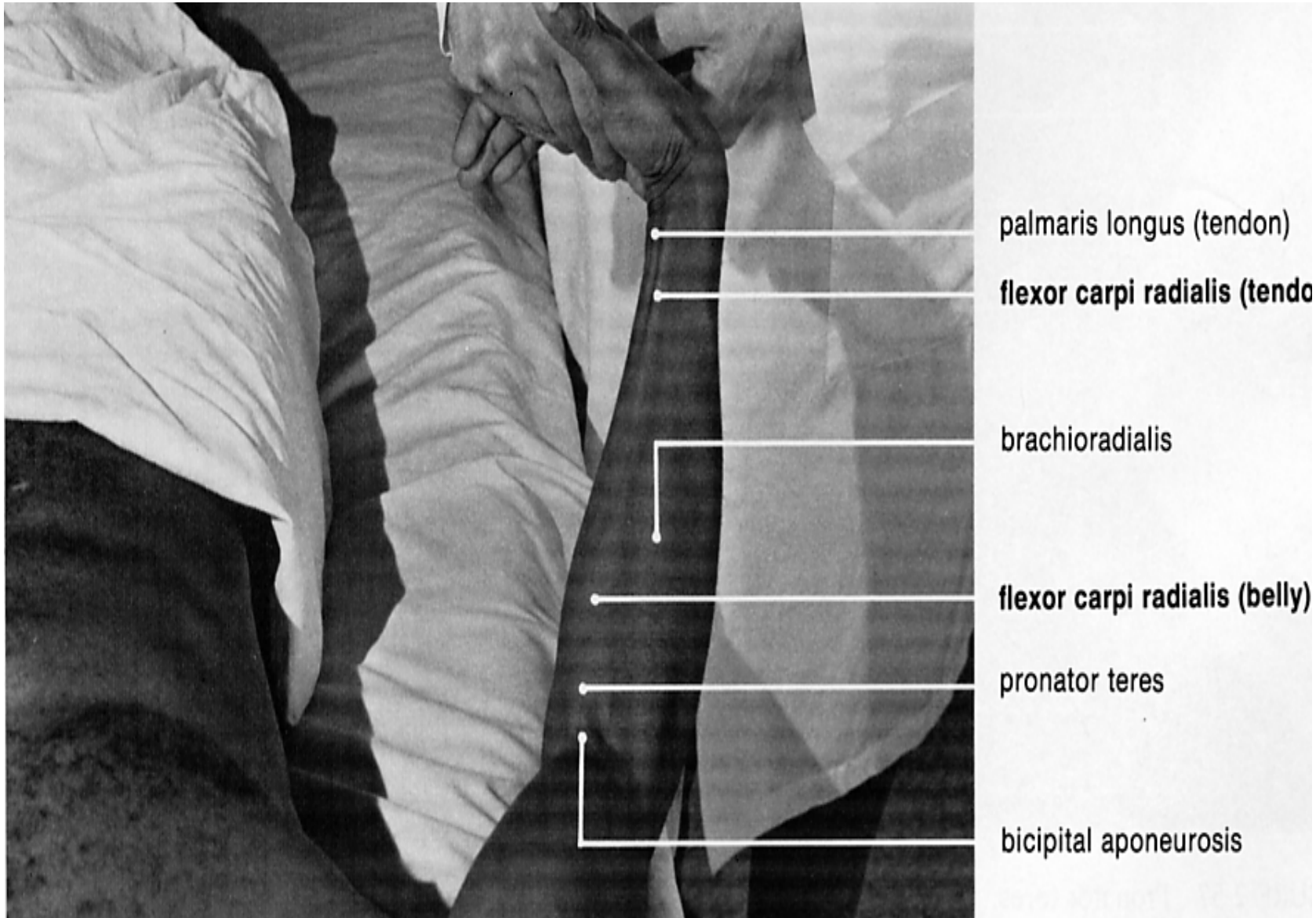
Probe indicates median n. as it passes between deep and superficial heads of pronator teres.

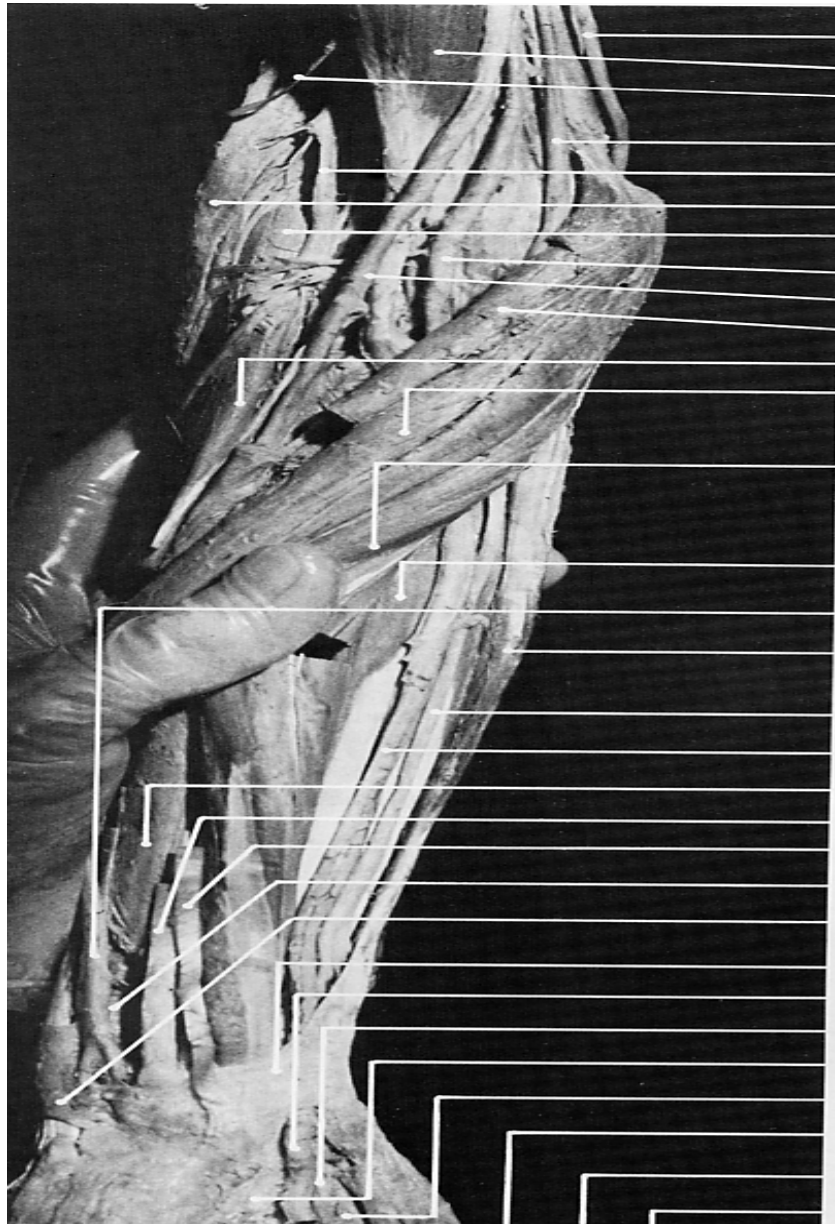
pronator teres (deep head)

superficial branch of radial n.

flexor carpi radialis

brachioradialis





ulnar n.
biceps brachii
lateral antebrachial cutaneous. n.

ulnar a.
radial n.
brachioradialis
extensor carpi radialis longus
median n.

radial a.
pronator teres
extensor carpi radialis longus
flexor carpi radialis

flexor digitorum superficialis
(reflected to expose deep side)

flexor digitorum profundus

radial a.
flexor carpi ulnaris

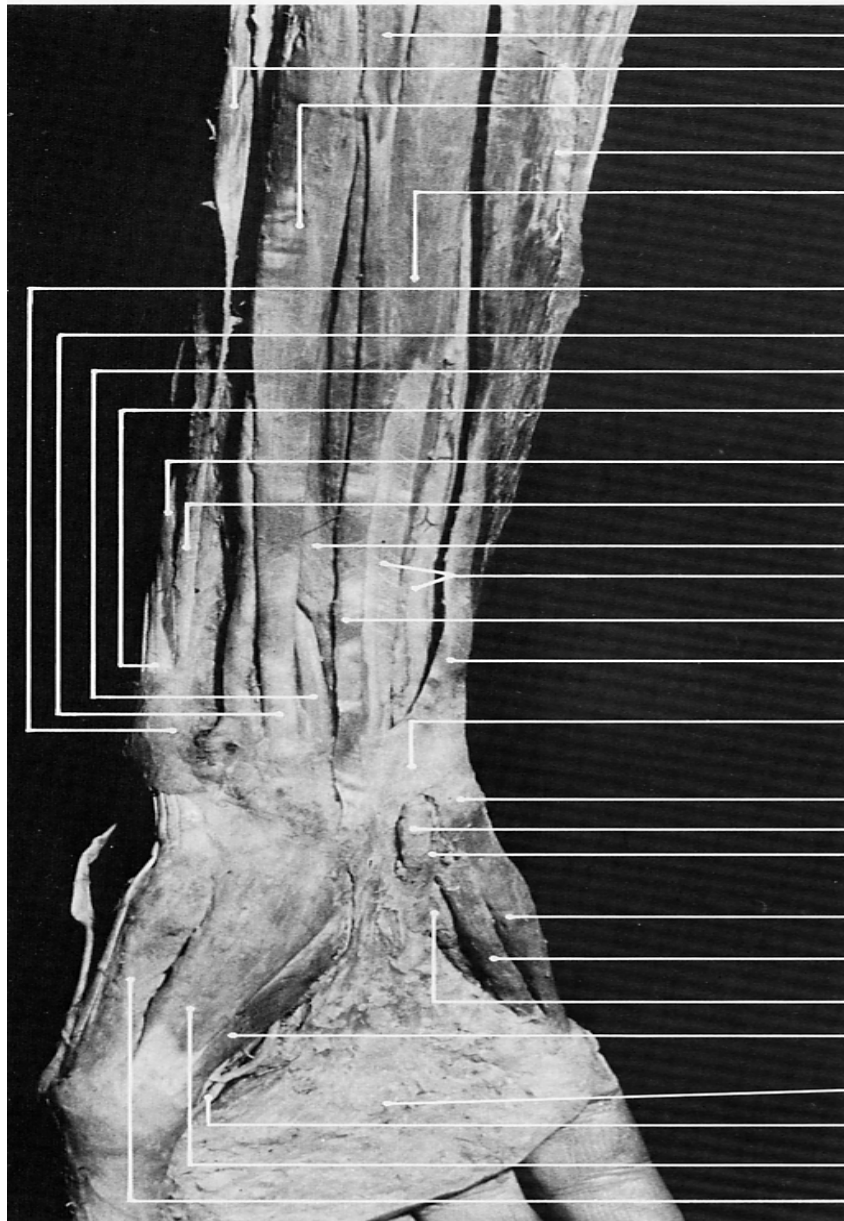
ulnar n.
ulnar a.
flexor pollicis longus
flexor carpi radialis (tendon) (transected)
palmaris longus (tendon) (transected)

pronator quadratus
extensor retinaculum

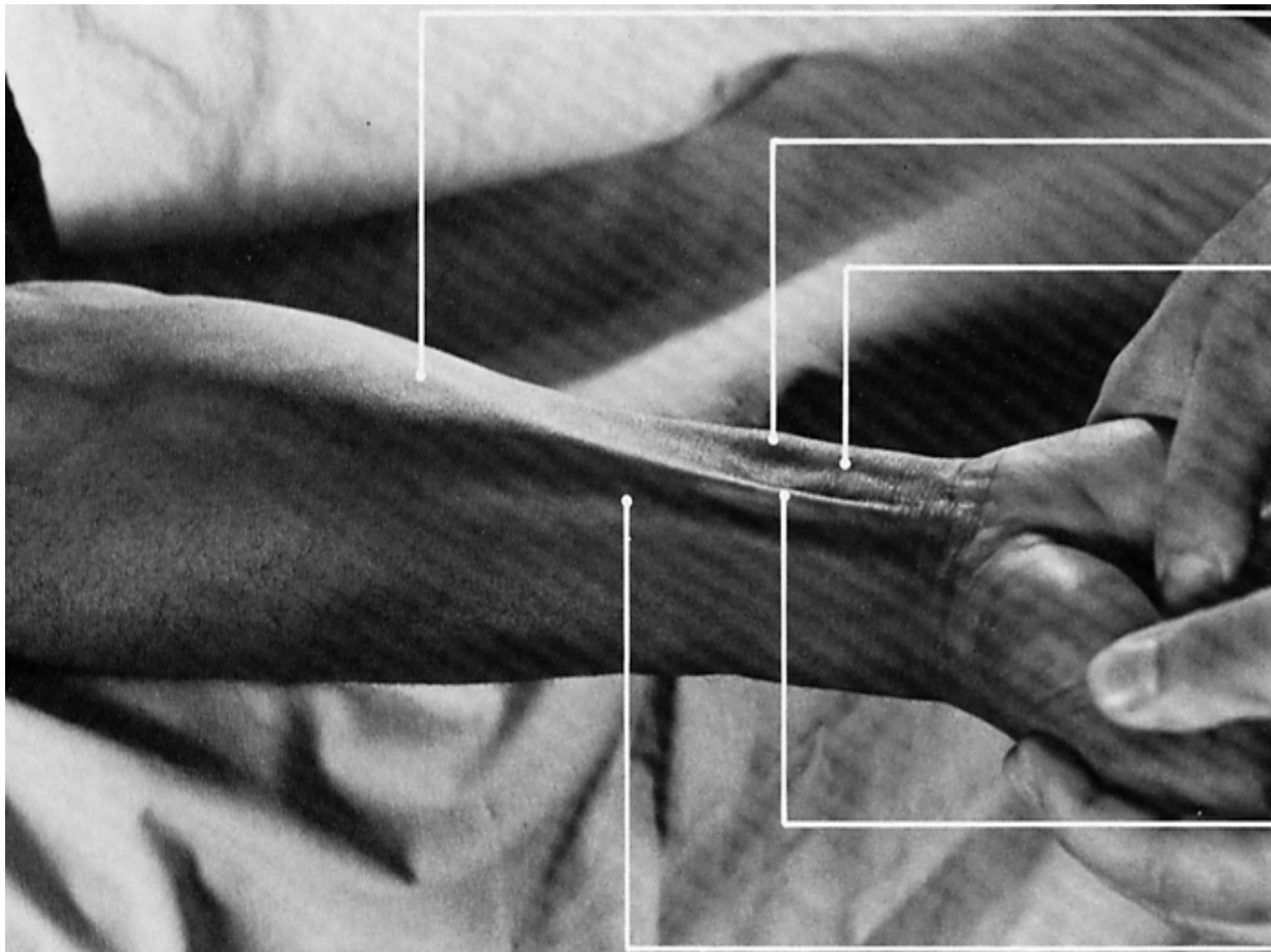
variant slip from flexor carpi
ulnaris (tendon) to flexor retinaculum
ulnar a.

ulnar n.
flexor retinaculum
opponens digiti minimi
recurrent branch of median n. to thenar
muscles

flexor digiti minimi
abductor digiti minimi



- palmaris longus
- brachioradialis
- flexor carpi radialis (belly)
- flexor carpi ulnaris (belly)
- flexor digitorum superficialis (belly)
- lateralmost portion of extensor retinaculum
- flexor carpi radialis (tendon)
- median n.
- extensor carpi radialis longus (tendon)
- extensor carpi radialis brevis (part of belly)
- brachioradialis (tendon)
- flexor digitorum superficialis (belly)
- flexor digitorum superficialis (tendons)
- palmaris longus (tendon)
- flexor carpi ulnaris (tendon)
- variant slip of flexor carpi ulnaris (tendon) to flexor retinaculum
- pisiform
- ulnar a.
- deep branch of ulnar n. } in Guyon's canal
- abductor digiti minimi
- flexor digiti minimi
- opponens digiti minimi
- flexor pollicis brevis
- palmar aponeurosis
- cutaneous branch of median n. to thumb
- abductor pollicis brevis
- opponens pollicis



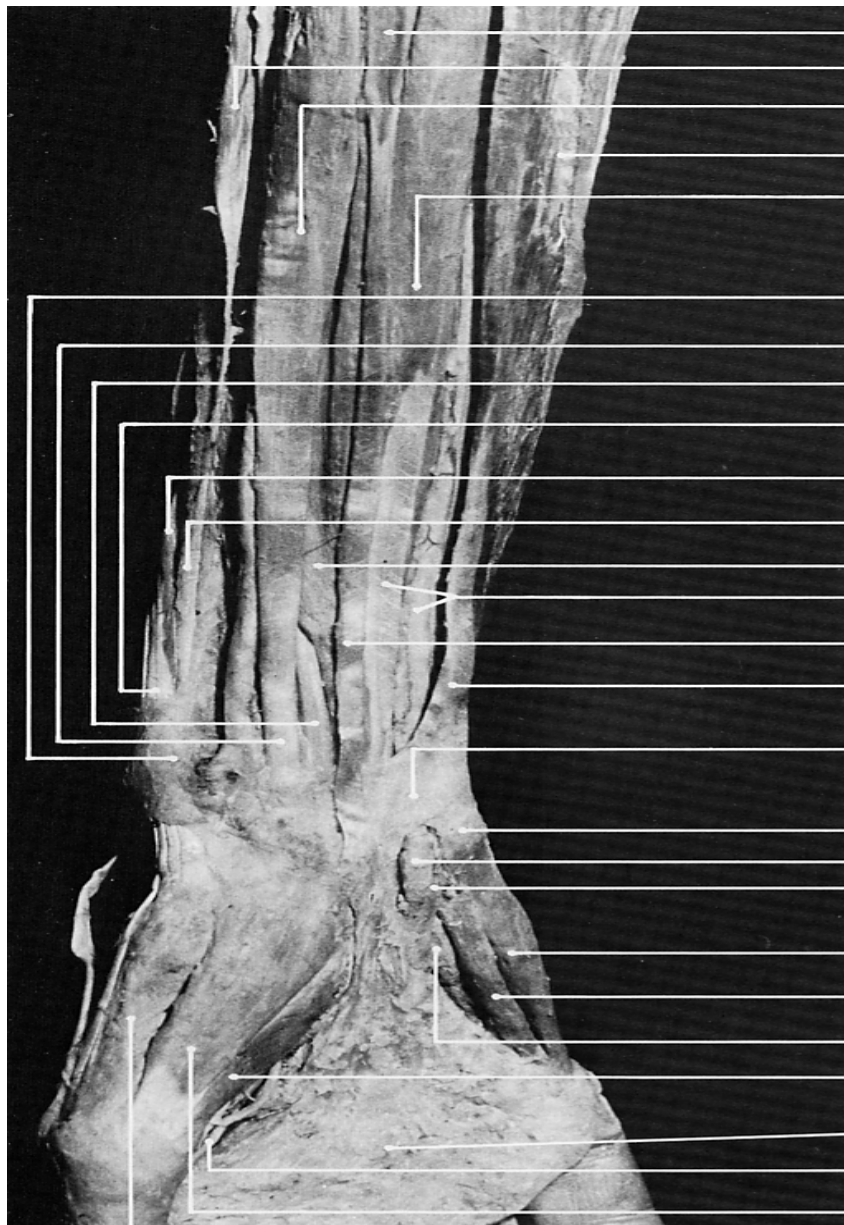
superficialis (belly)

**flexor carpi ulnaris
(tendon)**

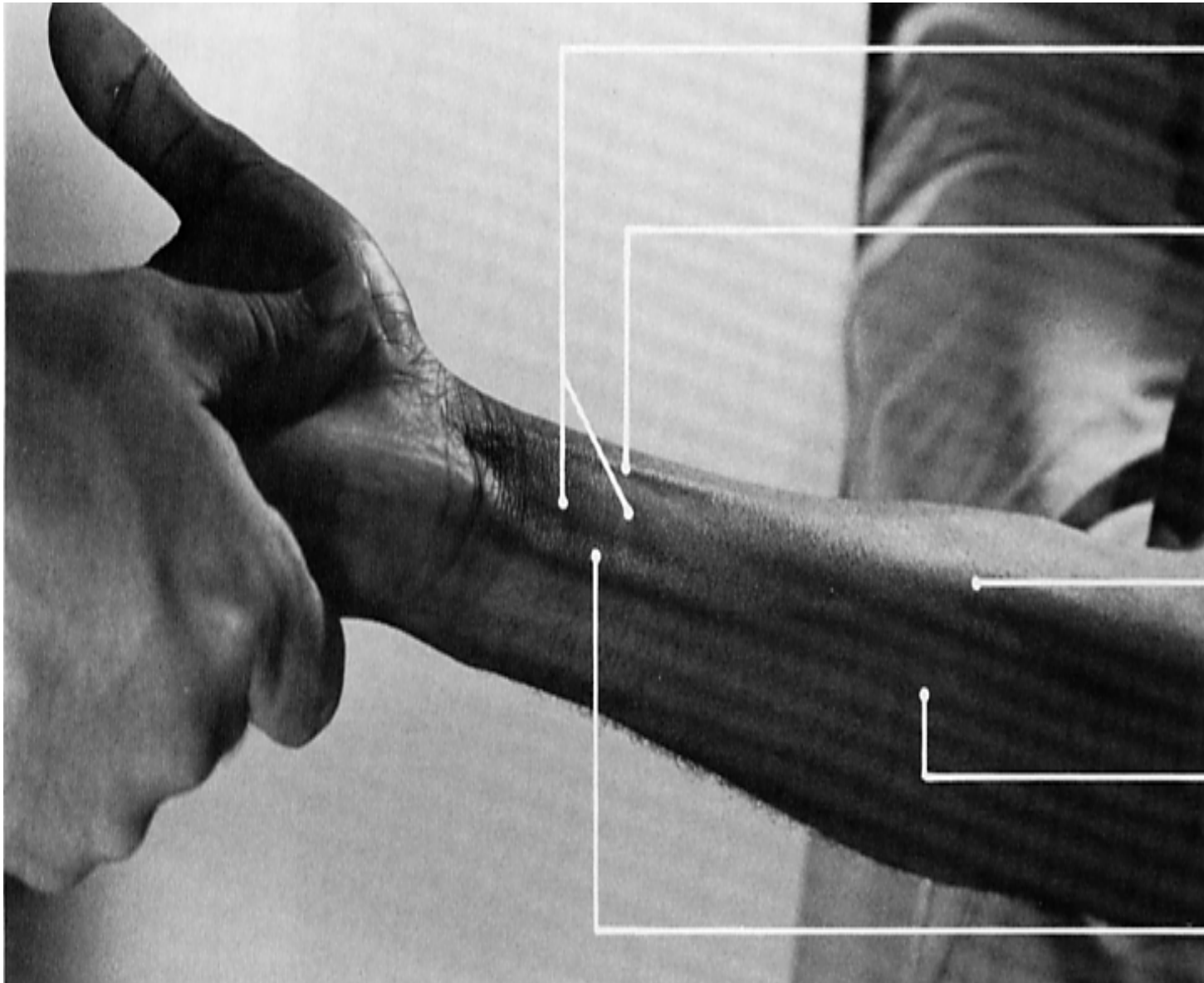
**flexor digitorum
superficialis (tendon)**

**palmaris longus
(tendon)**

flexor carpi radialis



- palmaris longus
- brachioradialis
- flexor carpi radialis (belly)
- flexor carpi ulnaris (belly)
- flexor digitorum superficialis (belly)
- lateralmost portion of extensor retinaculum
- flexor carpi radialis (tendon)
- median n.
- extensor carpi radialis longus (tendon)
- extensor carpi radialis brevis (part of belly)
- brachioradialis (tendon)
- flexor digitorum superficialis (belly)
- flexor digitorum superficialis (tendons)
- palmaris longus (tendon)
- flexor carpi ulnaris (tendon)
- variant slip of flexor carpi ulnaris (tendon) to flexor retinaculum
- pisiform
- ulnar a.
- deep branch of ulnar n. } in Guyon's s
- abductor digiti minimi
- flexor digiti minimi
- opponens digiti minimi
- flexor pollicis brevis
- palmar aponeurosis
- cutaneous branch of median n. to thumb
- abductor pollicis brevis



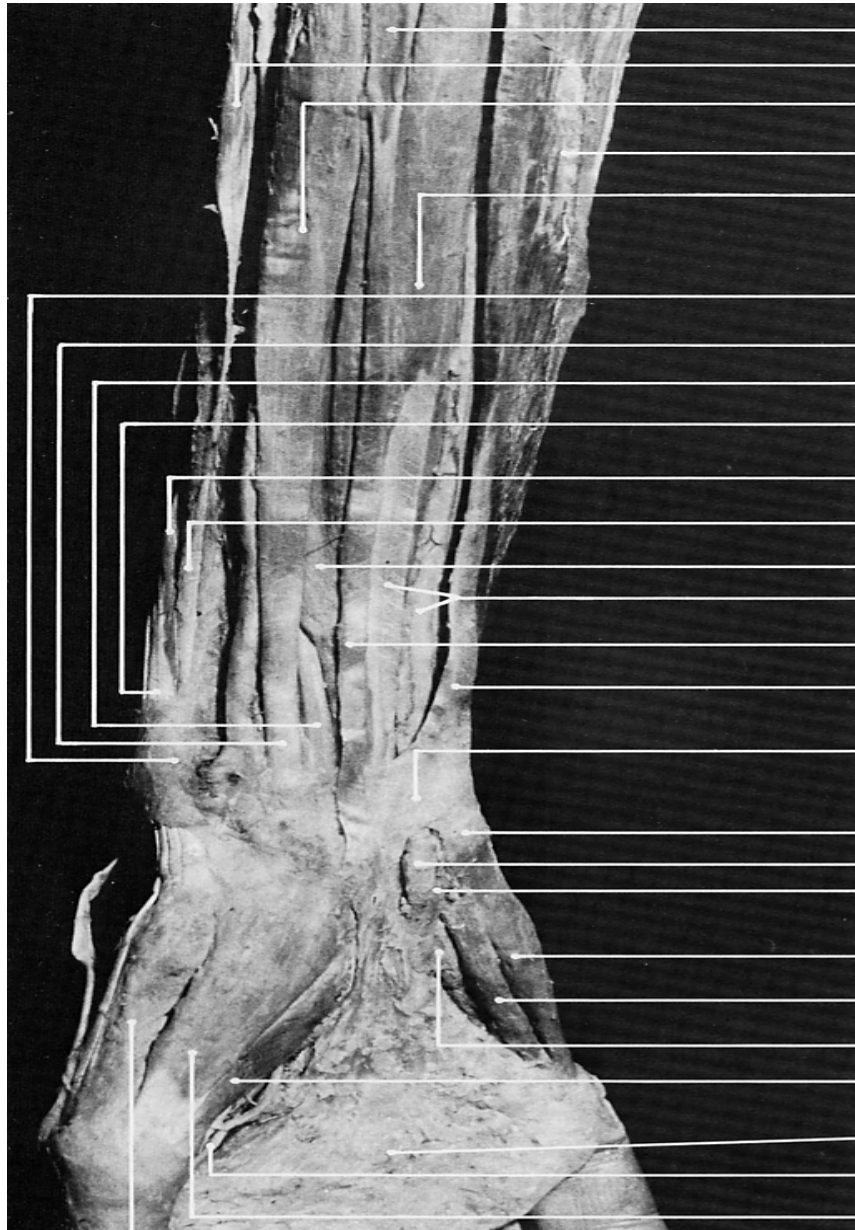
superficialis
(tendons)

palmaris longus
(tendon)

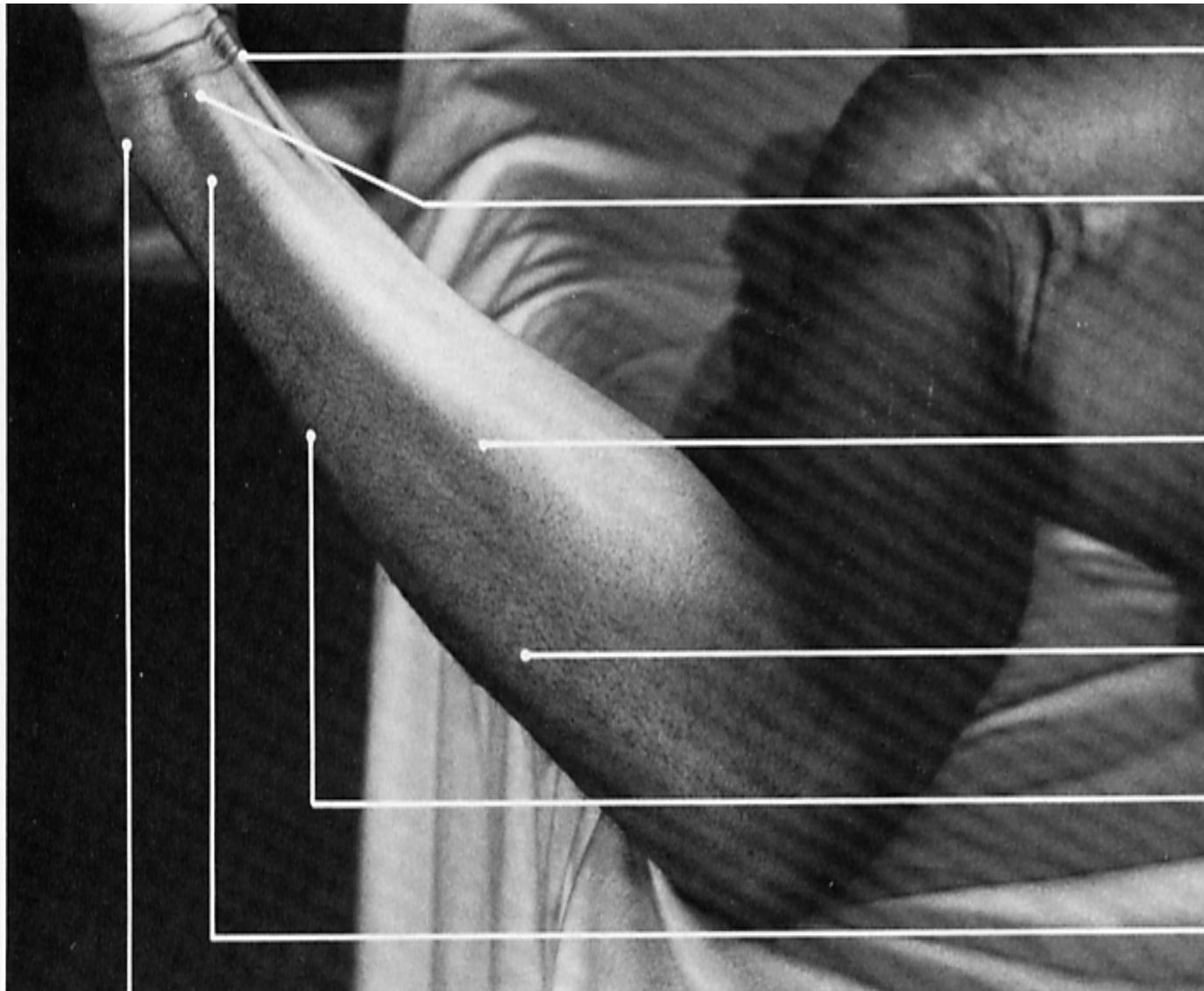
flexor digitorum
superficialis
(belly)

flexor carpi
ulnaris (belly)

flexor carpi
ulnaris (tendon)



- palmaris longus
- brachioradialis
- flexor carpi radialis (belly)
- flexor carpi ulnaris (belly)
- flexor digitorum superficialis (belly)
- lateralmost portion of extensor retinaculum
- flexor carpi radialis (tendon)
- median n.
- extensor carpi radialis longus (tendon)
- extensor carpi radialis brevis (part of belly)
- brachioradialis (tendon)
- flexor digitorum superficialis (belly)
- flexor digitorum superficialis (tendons)
- palmaris longus (tendon)
- flexor carpi ulnaris (tendon)
- variant slip of flexor carpi ulnaris (tendon) to flexor retinaculum
- pisiform
- ulnar a.
- deep branch of ulnar n. } in Guyon's s.
- abductor digiti minimi
- flexor digiti minimi
- opponens digiti minimi
- flexor pollicis brevis
- palmar aponeurosis
- cutaneous branch of median n. to thumb
- abductor pollicis brevis



palmaris longus
(tendon)

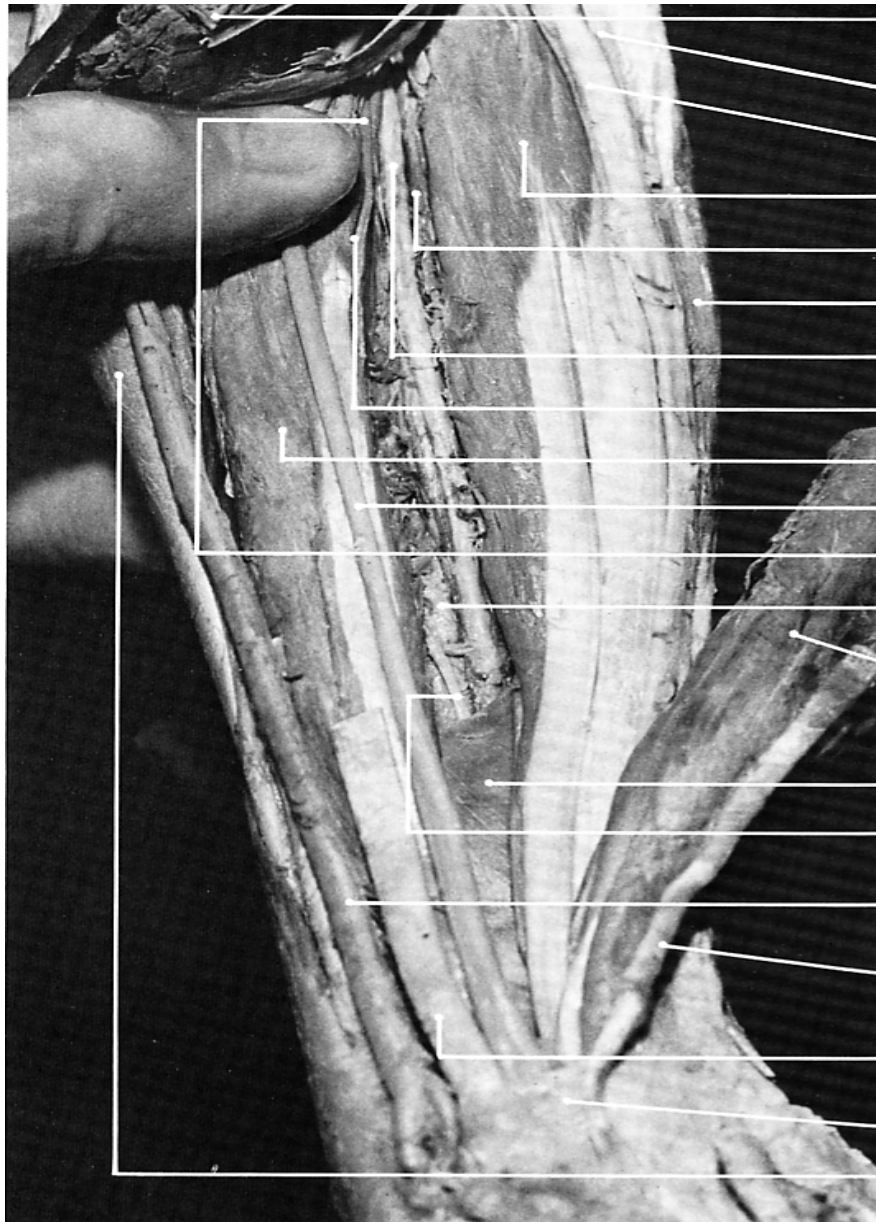
flexor carpi
ulnaris (tendon)

flexor carpi
ulnaris (belly)

**flexor digitorum
profundus**

dorsal border
of ulna

pin insertion site
for pronator quadratus



flexor carpi radialis (belly transected and reflected upward)

ulnar n.

ulnar a. overlapping ulnar n.

flexor digitorum profundus

anterior interosseous v.

flexor carpi ulnaris

anterior interosseous a.

anterior interosseous n.

flexor pollicis longus

median n.

anterior interosseous v.

interosseous membrane

flexor digitorum superficialis (transected distal belly)

pronator quadratus

anterior interosseous n.

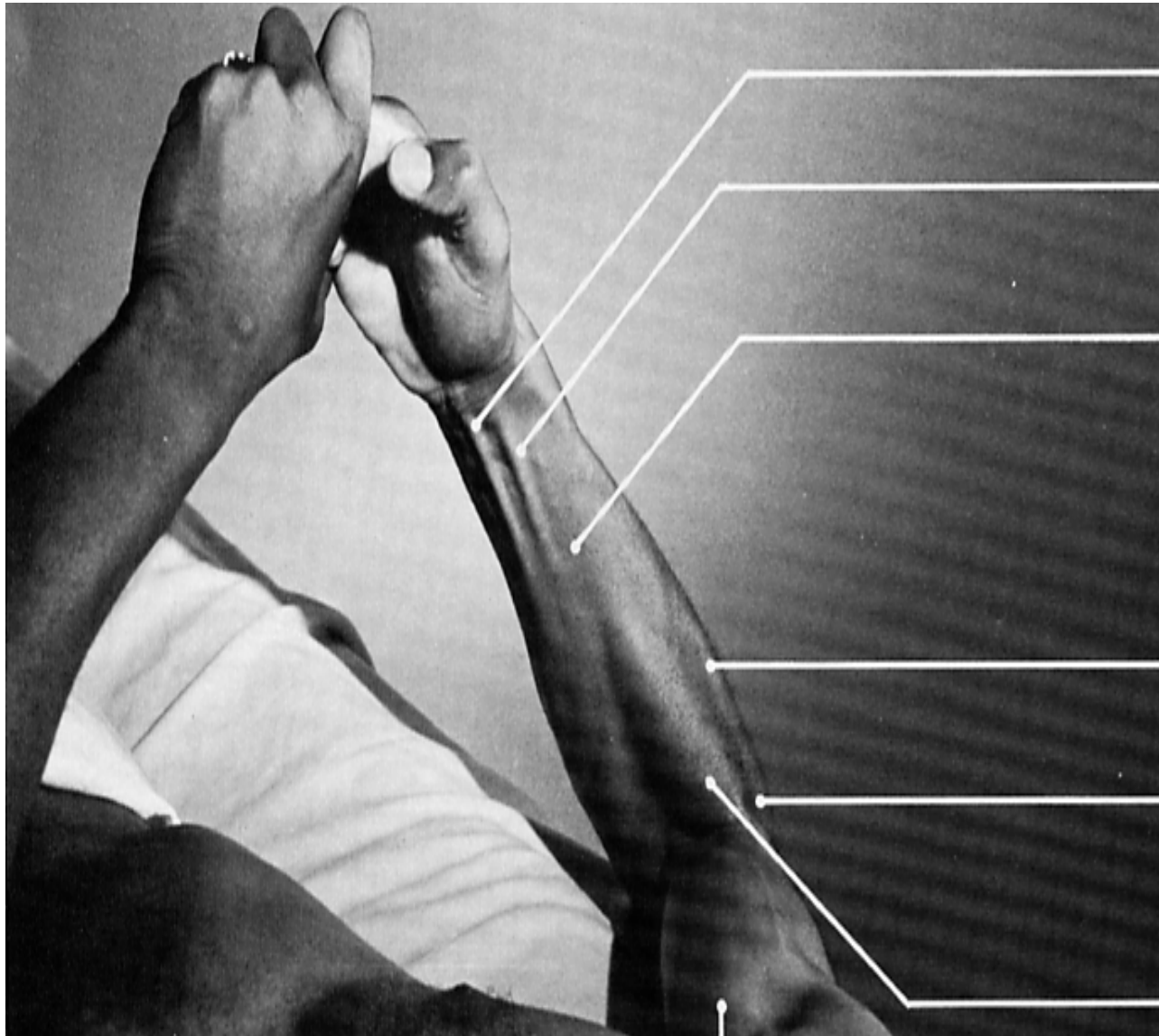
radial a.

palmaris longus (tendon) (belly transected)

flexor carpi radialis (tendon) (belly transected)

anterior carpal ligament

brachioradialis



palmaris longus (tendon)

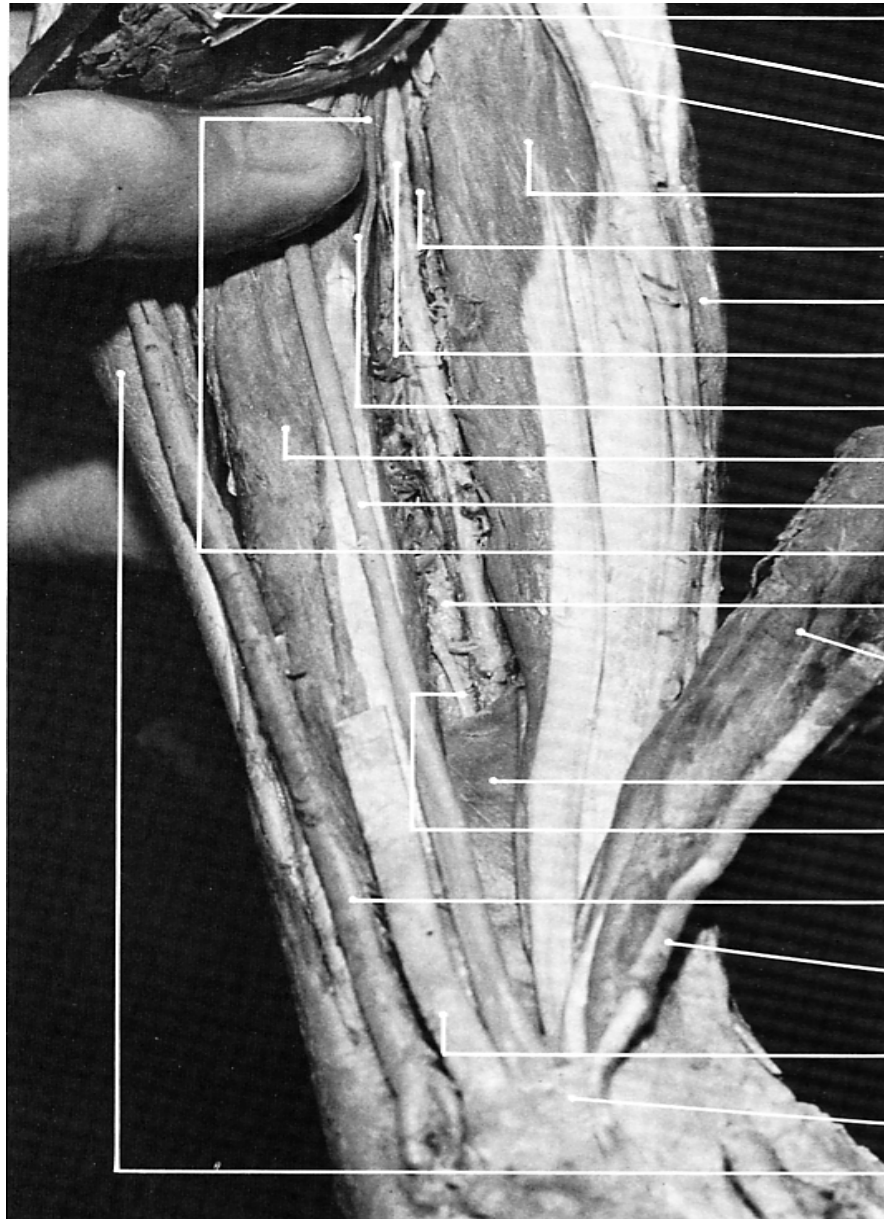
flexor carpi radialis
(tendon)

pin insertion site for
flexor pollicis longus

extensor carpi
radialis brevis

extensor carpi
radialis longus

brachioradialis



flexor carpi radialis (belly transected and reflected upward)

ulnar n.

ulnar a. overlapping ulnar n.

flexor digitorum profundus

anterior interosseous v.

flexor carpi ulnaris

anterior interosseous a.

anterior interosseous n.

flexor pollicis longus

median n.

anterior interosseous v.

interosseous membrane

flexor digitorum superficialis (transected distal belly)

pronator quadratus

anterior interosseous n.

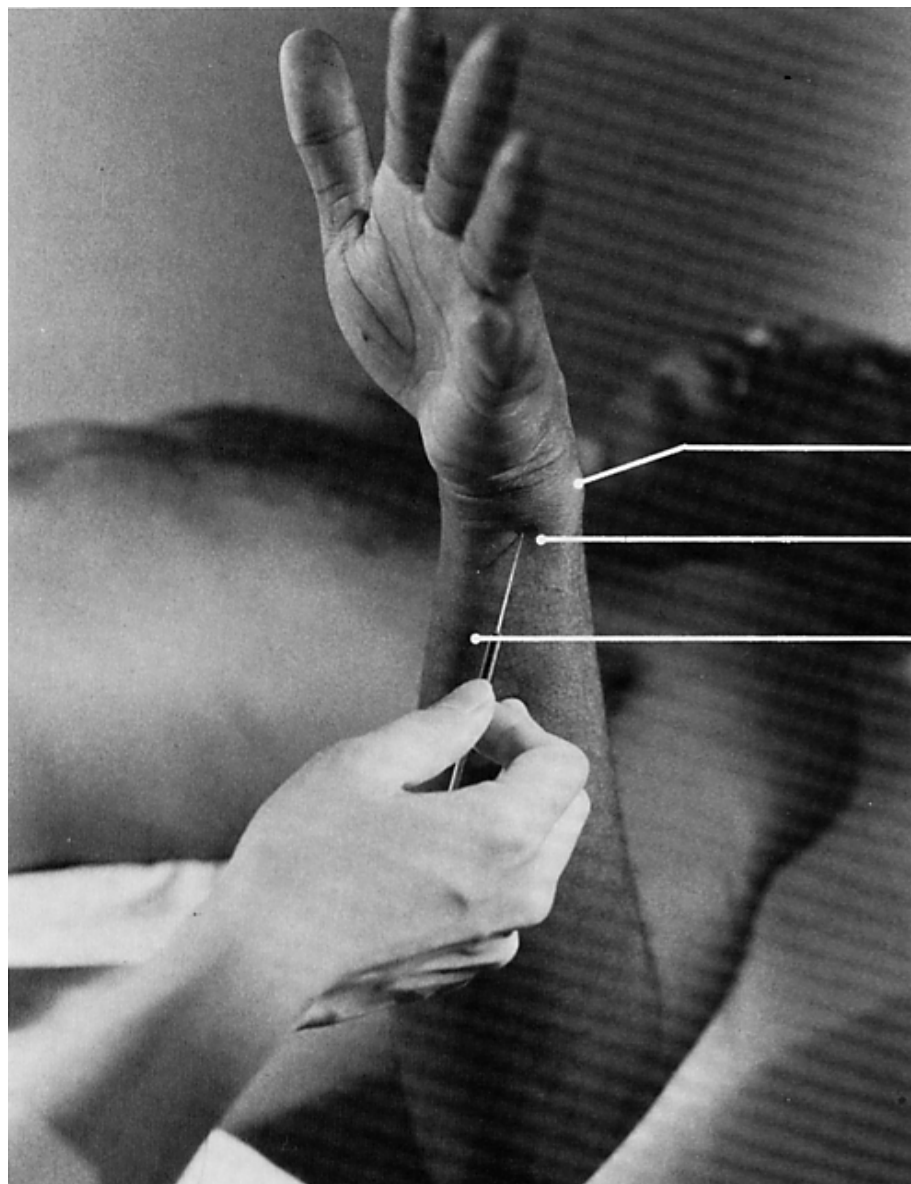
radial a.

palmaris longus (tendon) (belly transected)

flexor carpi radialis (tendon) (belly transected)

anterior carpal ligament

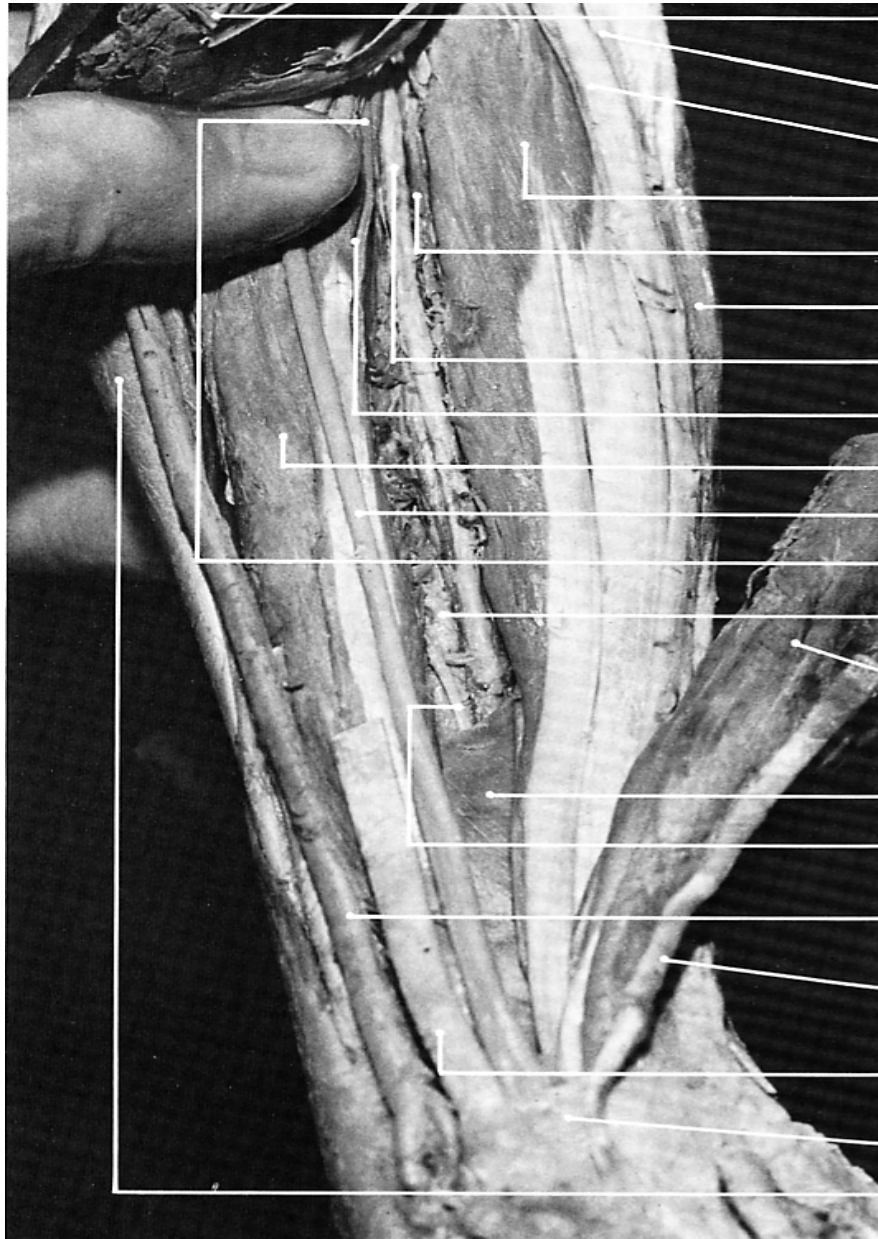
brachioradialis



head of ulna

pin insertion site for **pronator quadratus**,
2 cm proximal to prominence of head of ulna

flexor carpi ulnaris (tendon)



flexor carpi radialis (belly transected and reflected upward)

ulnar n.

ulnar a. overlapping ulnar n.

flexor digitorum profundus

anterior interosseous v.

flexor carpi ulnaris

anterior interosseous a.

anterior interosseous n.

flexor pollicis longus

median n.

anterior interosseous v.

interosseous membrane

flexor digitorum superficialis (transected distal belly)

pronator quadratus

anterior interosseous n.

radial a.

palmaris longus (tendon) (belly transected)

flexor carpi radialis (tendon) (belly transected)

anterior carpal ligament

brachioradialis