



## **Human Anatomy in Motion: Hand Muscles**

**Jennifer Chu, M.D.  
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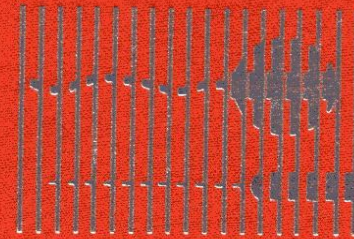
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Chu-Andrews  
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Electrodiagnosis  
An Anatomical and Clinical Approach

# Electrodiagnosis

An Anatomical and Clinical Approach



Jennifer Chu-Andrews • Robert J. Johnson



elsevier





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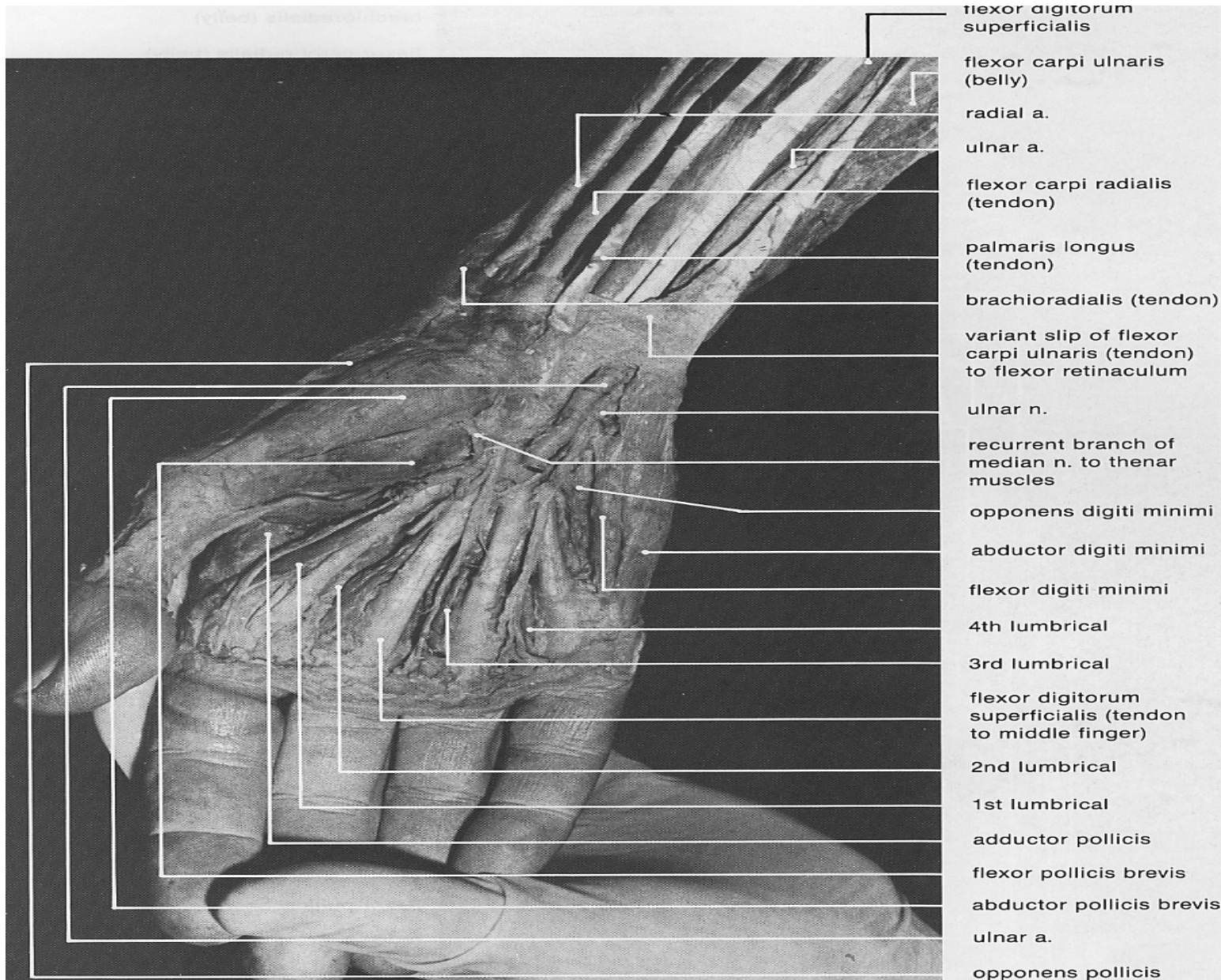
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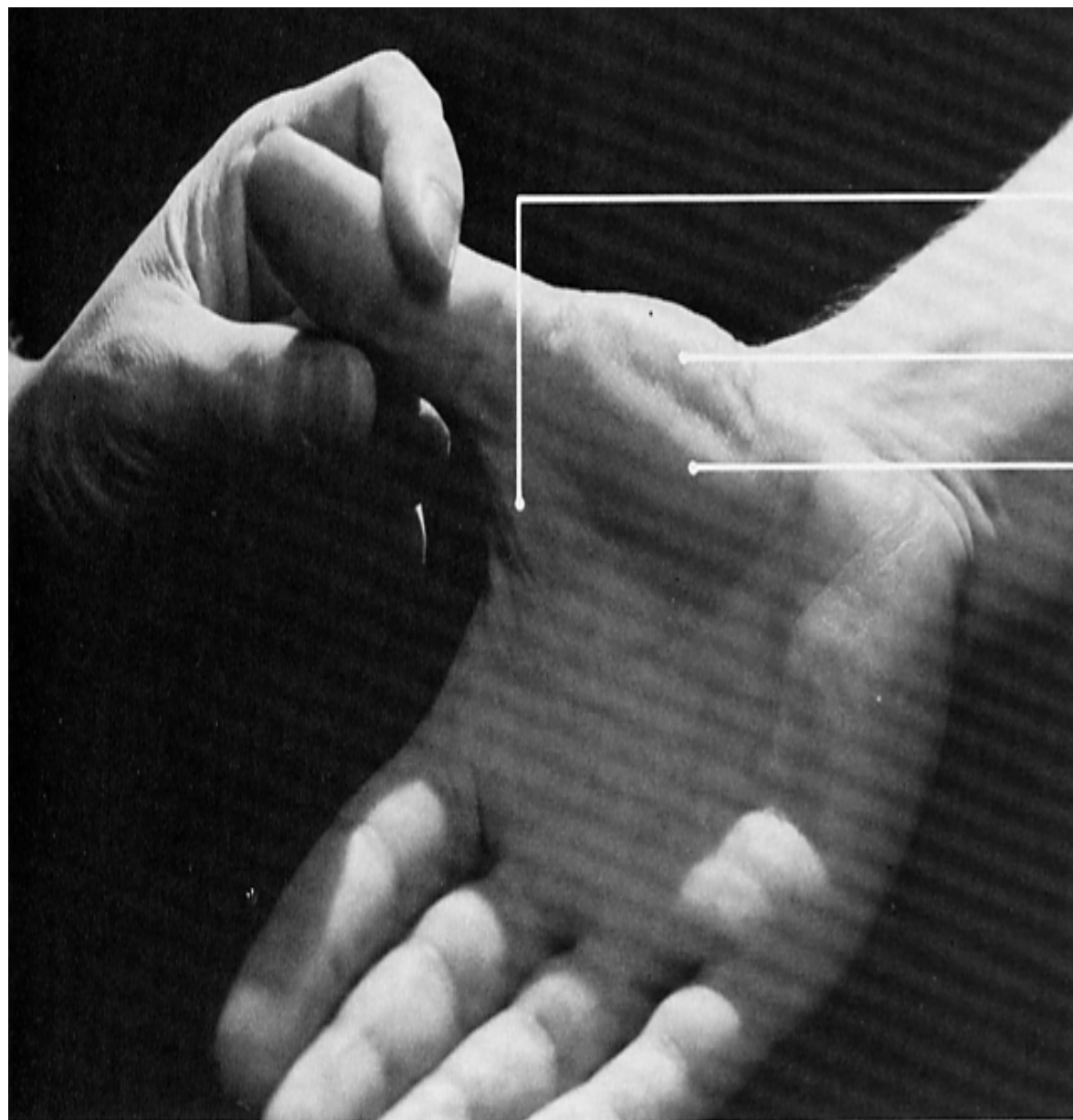
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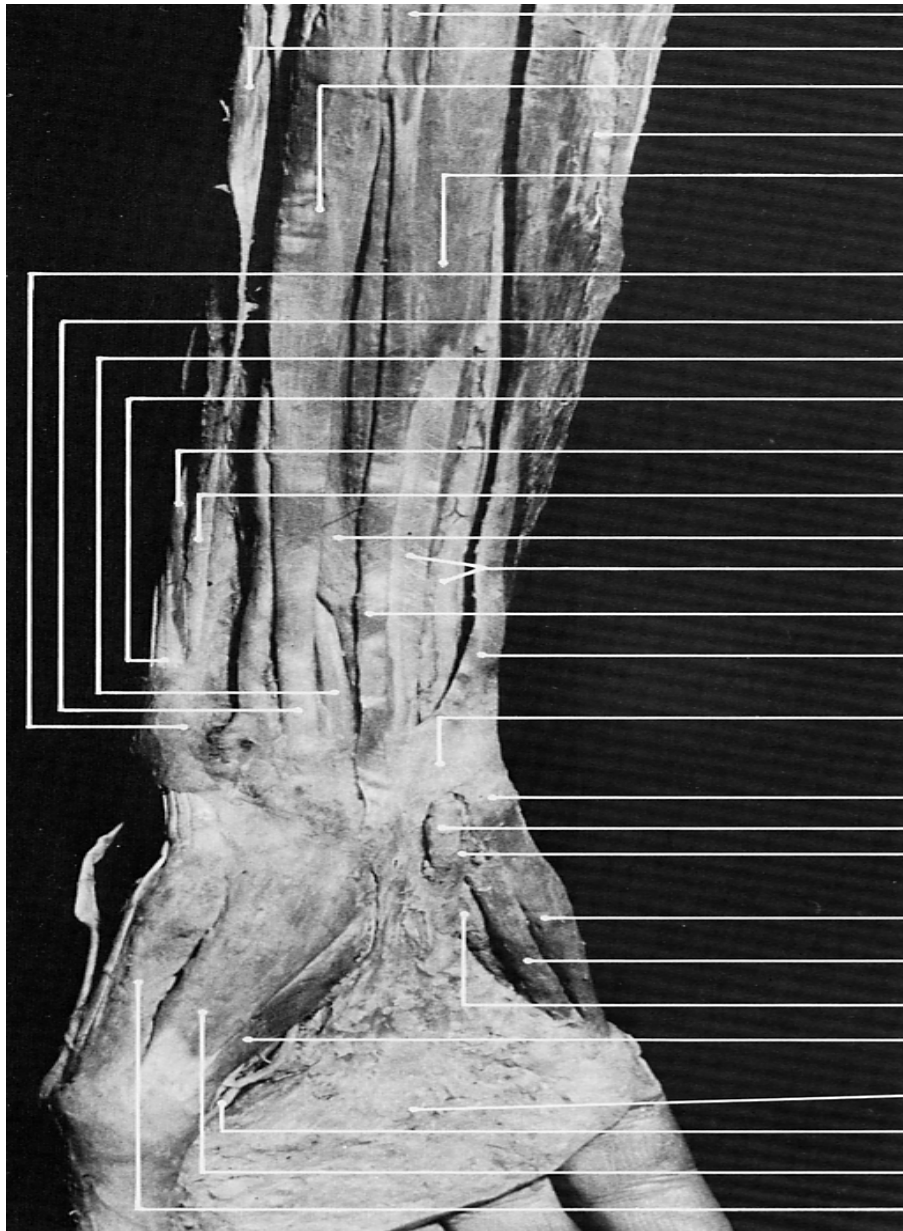


skin fold of first  
web space overlying  
adductor pollicis

**abductor pollicis brevis**

flexor pollicis brevis





- 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 ca
  
- 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



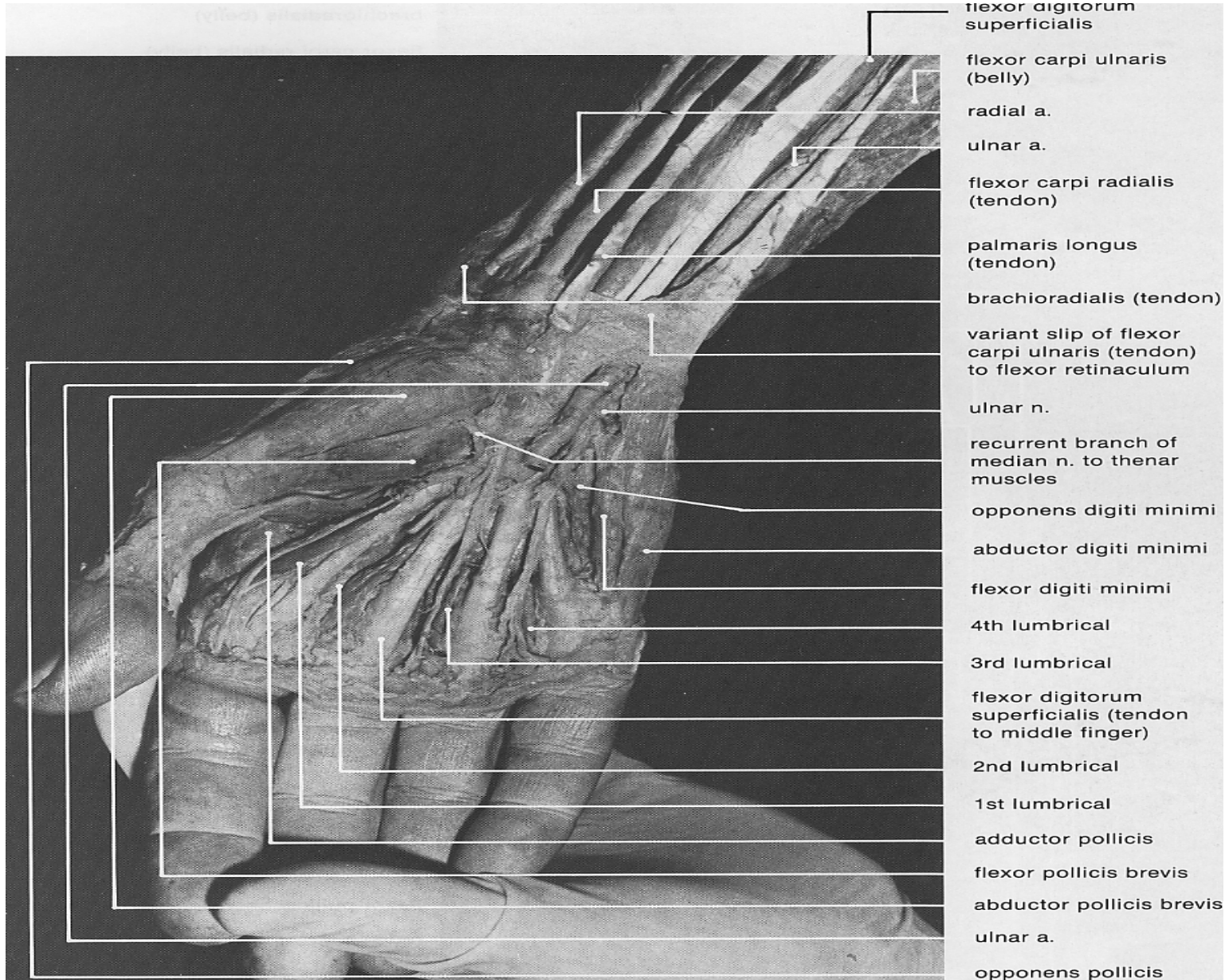
skin fold of first  
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adductor pollicis

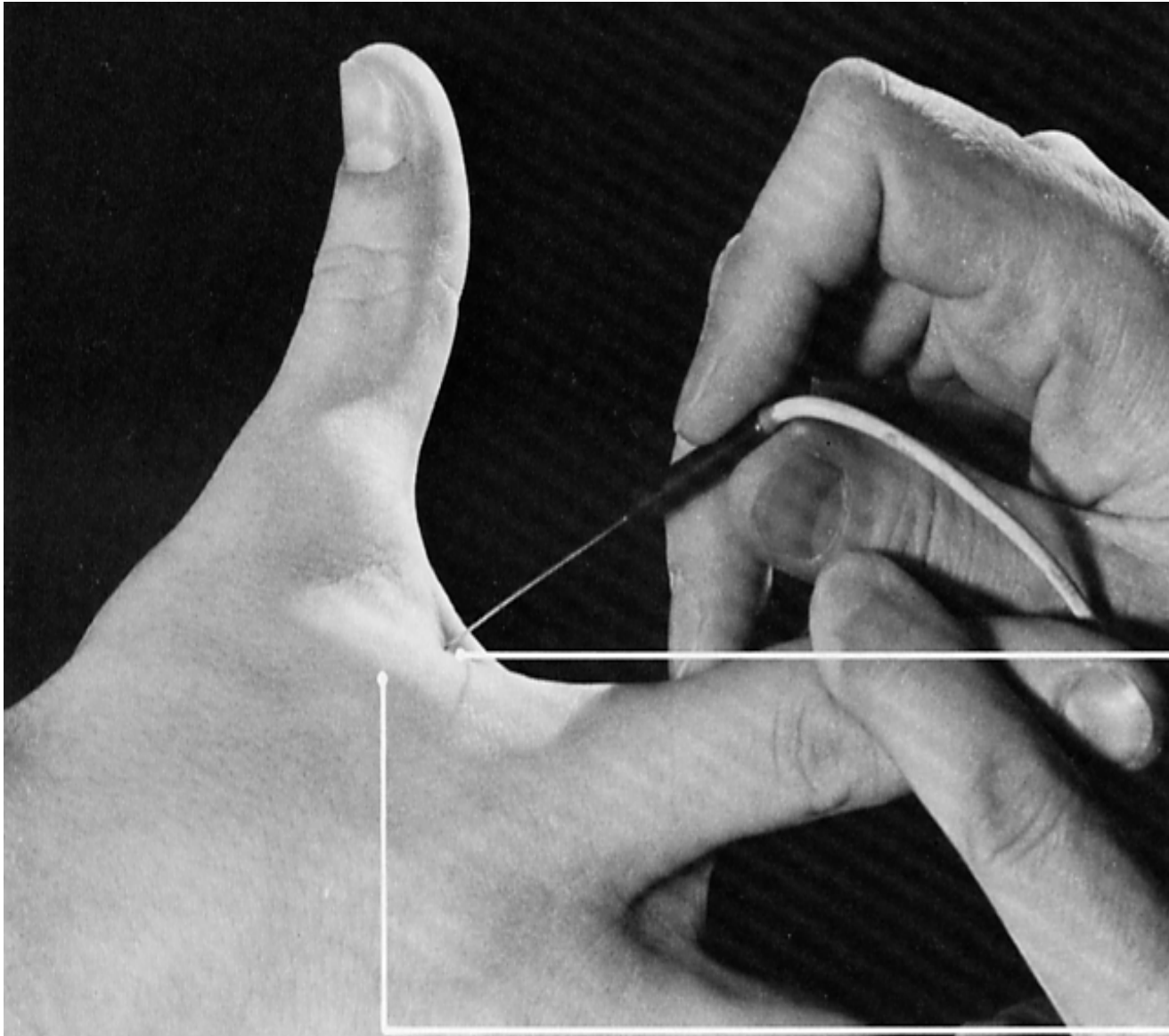
abductor pollicis brevis

flexor pollicis brevis

hypothenar muscles



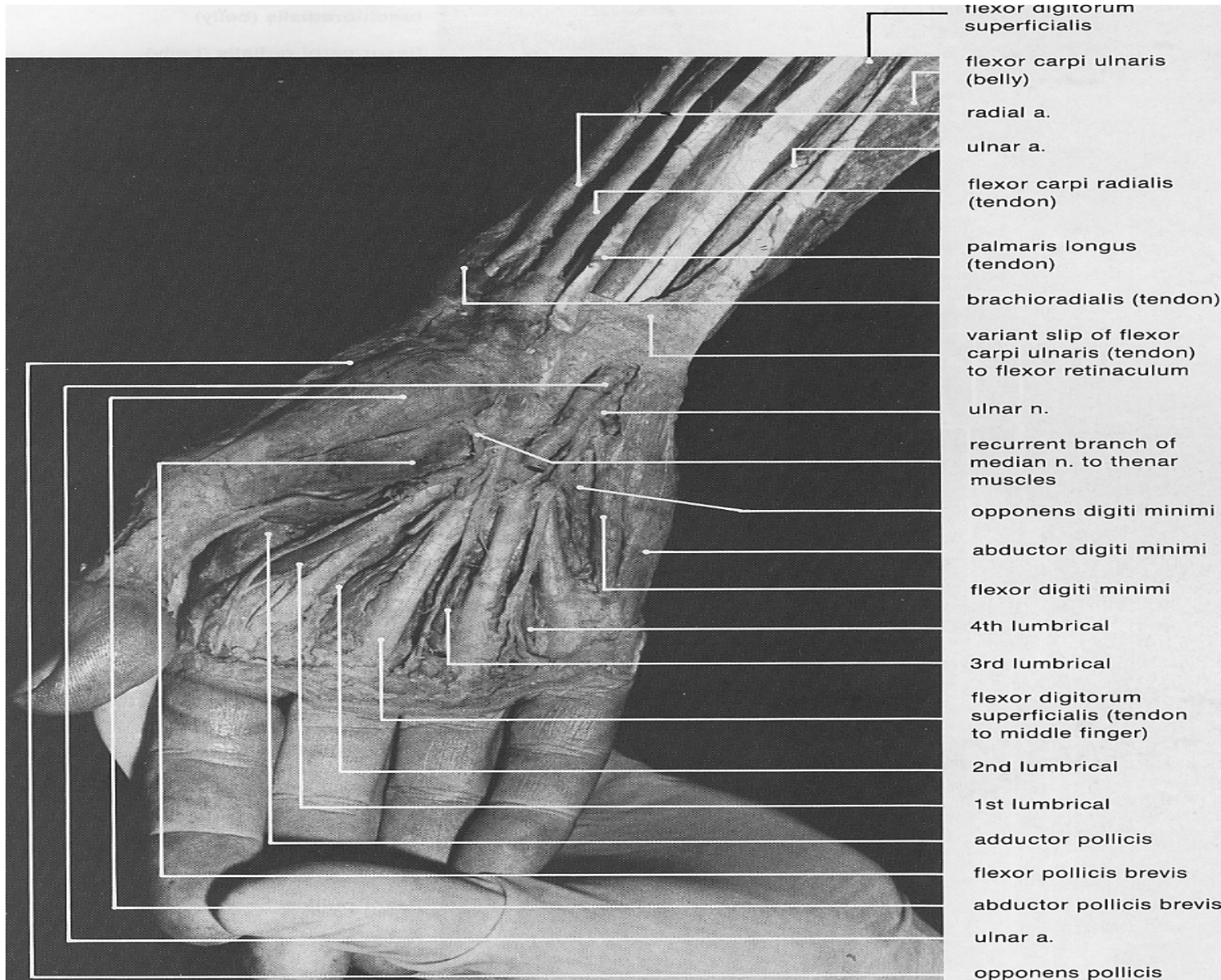




pin insertion site for  
**adductor pollicis** through  
skin fold of first web space

first dorsal interosseus





flexor digitorum superficialis

flexor carpi ulnaris (belly)

radial a.

ulnar a.

flexor carpi radialis (tendon)

palmaris longus (tendon)

brachioradialis (tendon)

variant slip of flexor carpi ulnaris (tendon) to flexor retinaculum

ulnar n.

recurrent branch of median n. to thenar muscles

opponens digiti minimi

abductor digiti minimi

flexor digiti minimi

4th lumbrical

3rd lumbrical

flexor digitorum superficialis (tendon to middle finger)

2nd lumbrical

1st lumbrical

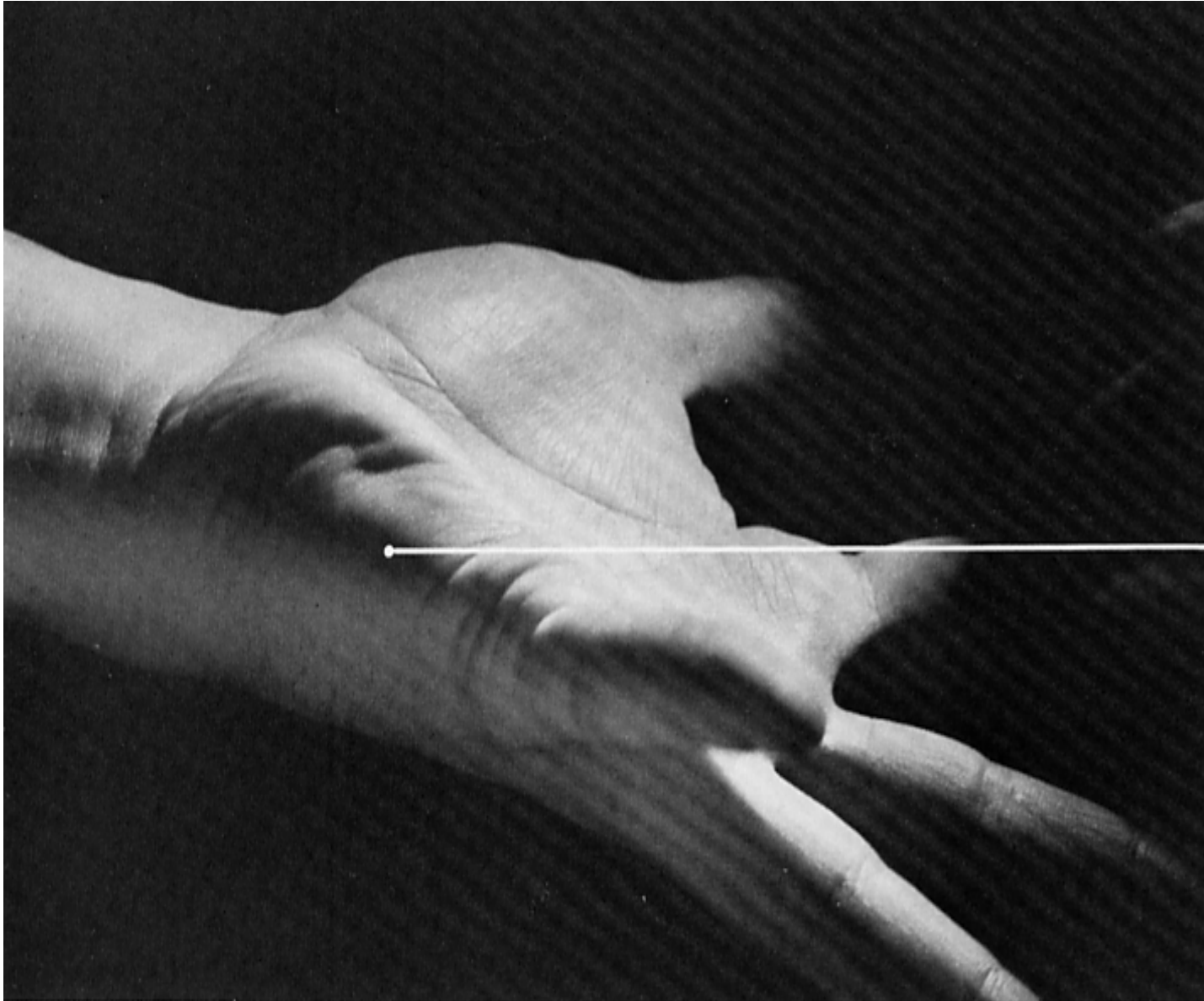
adductor pollicis

flexor pollicis brevis

abductor pollicis brevis

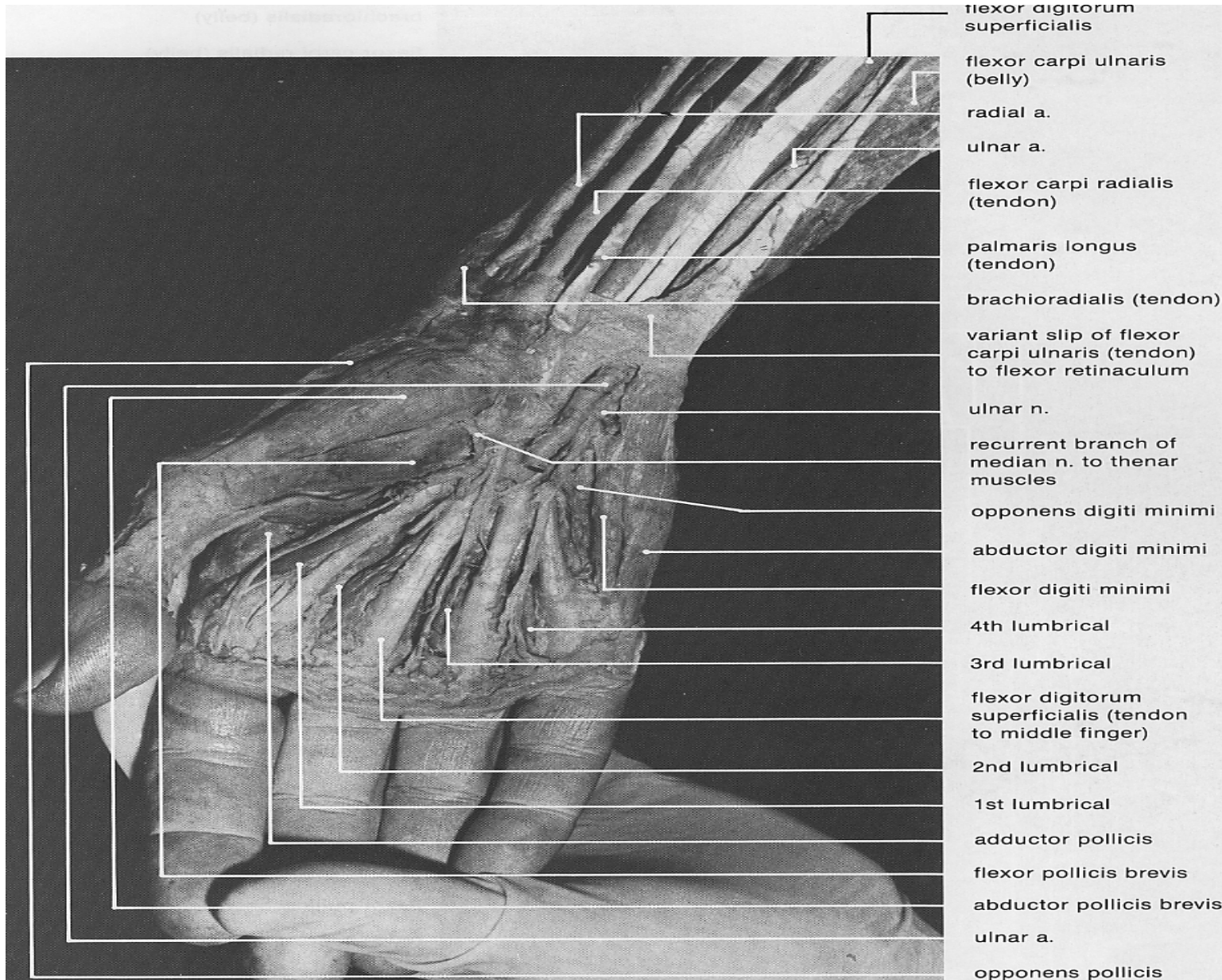
ulnar a.

opponens pollicis

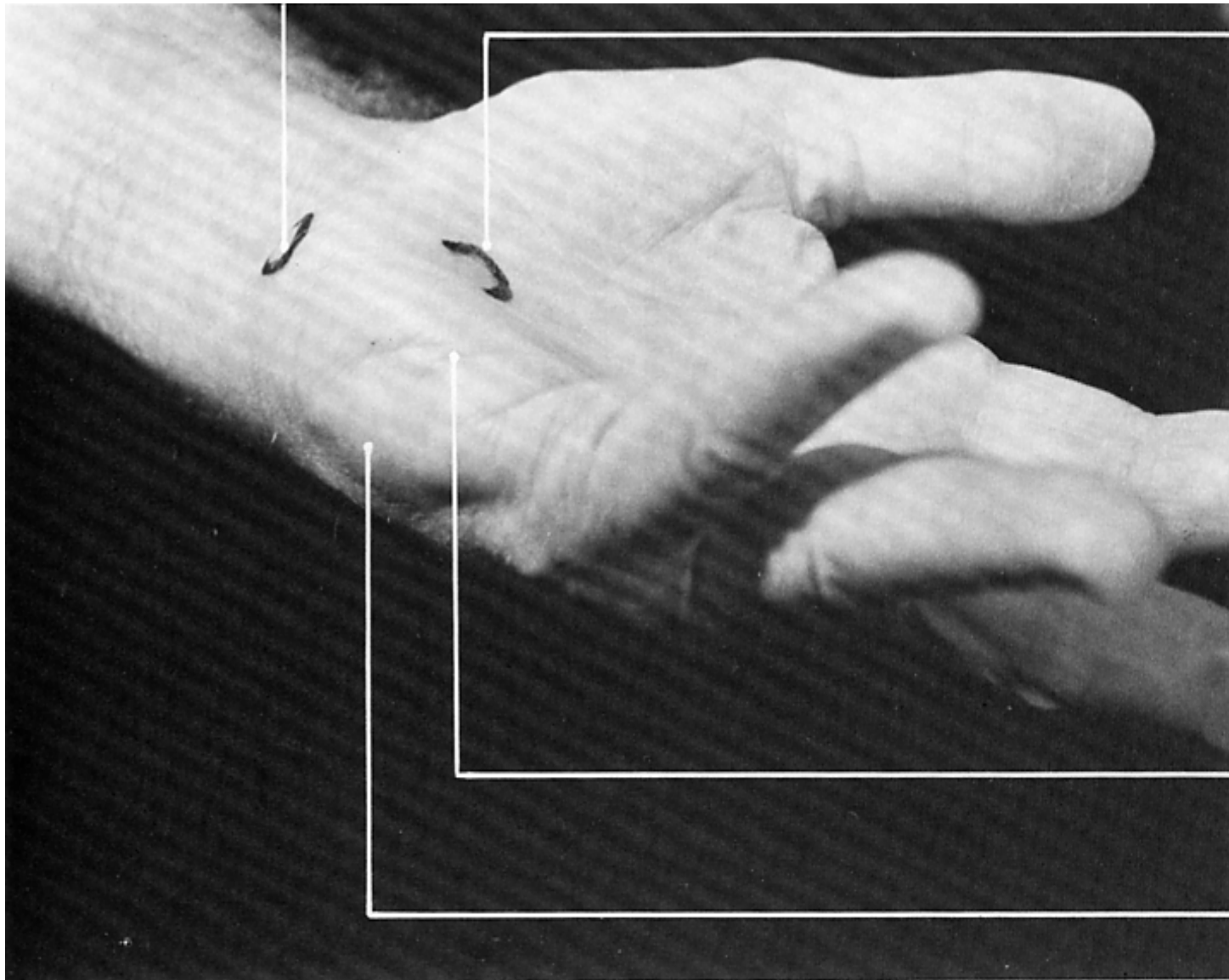


**abductor  
digiti minimi**





- flexor digitorum superficialis
- flexor carpi ulnaris (belly)
- radial a.
- ulnar a.
- flexor carpi radialis (tendon)
- palmaris longus (tendon)
- brachioradialis (tendon)
- variant slip of flexor carpi ulnaris (tendon) to flexor retinaculum
- ulnar n.
- recurrent branch of median n. to thenar muscles
- opponens digiti minimi
- abductor digiti minimi
- flexor digiti minimi
- 4th lumbrical
- 3rd lumbrical
- flexor digitorum superficialis (tendon to middle finger)
- 2nd lumbrical
- 1st lumbrical
- adductor pollicis
- flexor pollicis brevis
- abductor pollicis brevis
- ulnar a.
- opponens pollicis

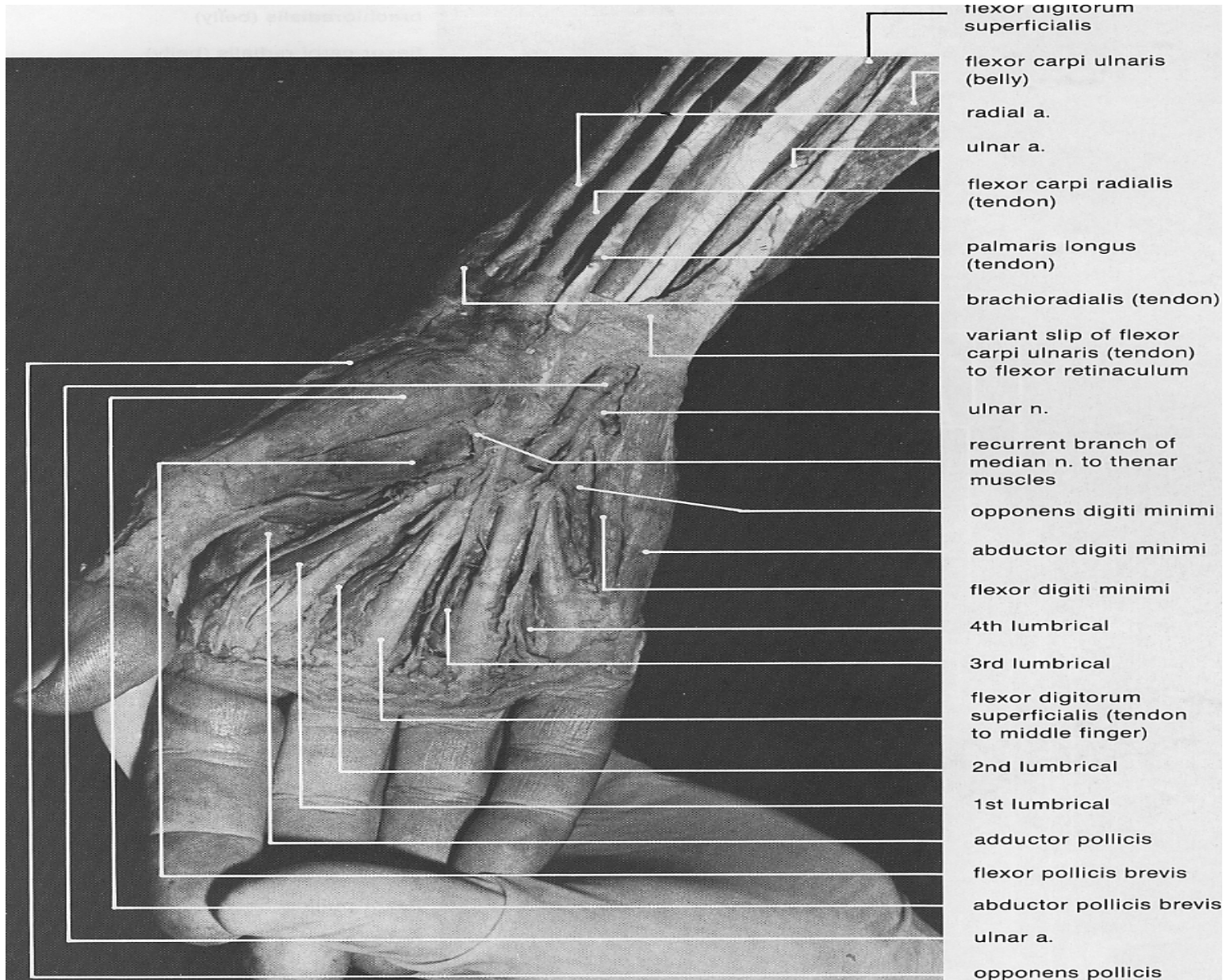


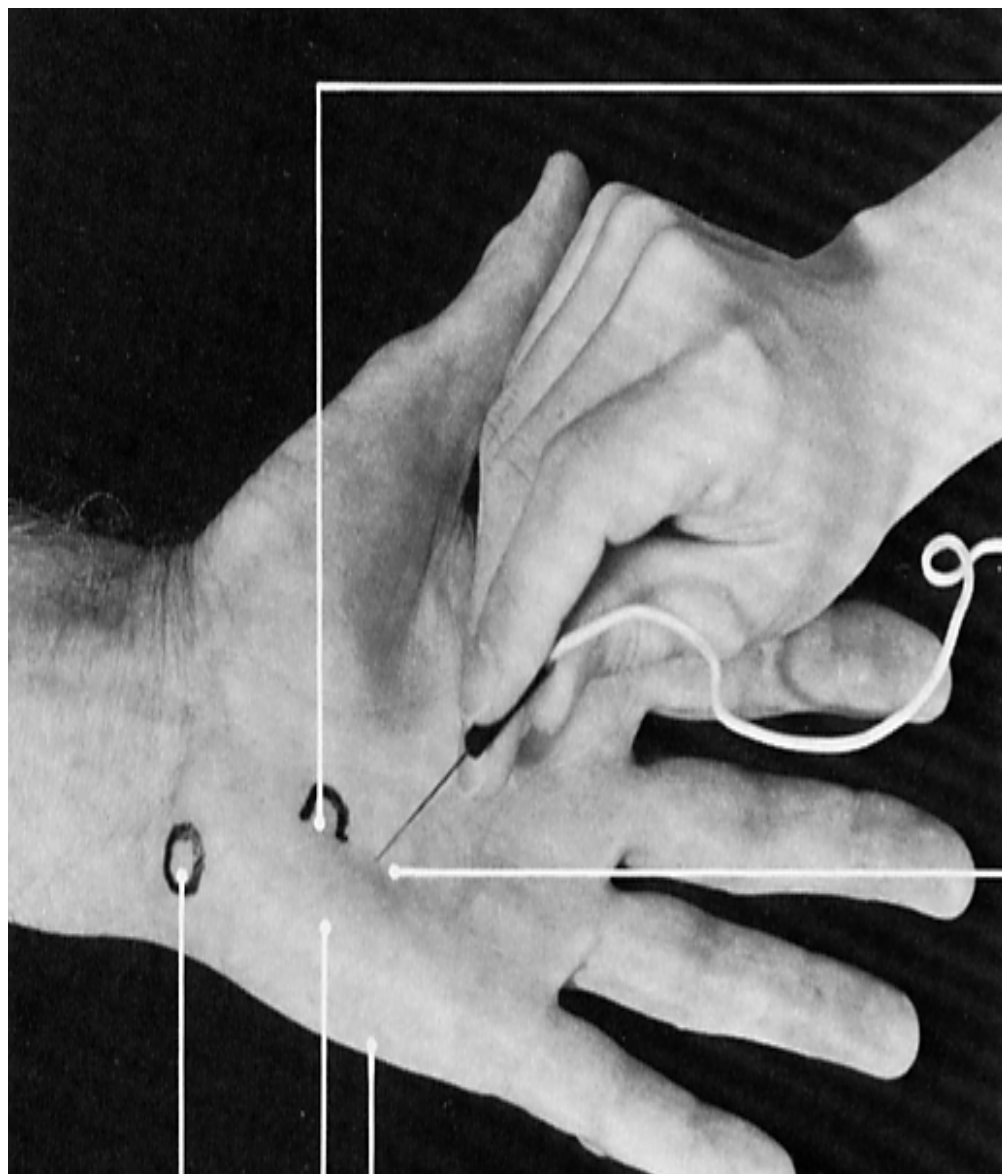
hook of ham...

flexor digiti  
minimi brevis

abductor dig  
minimi



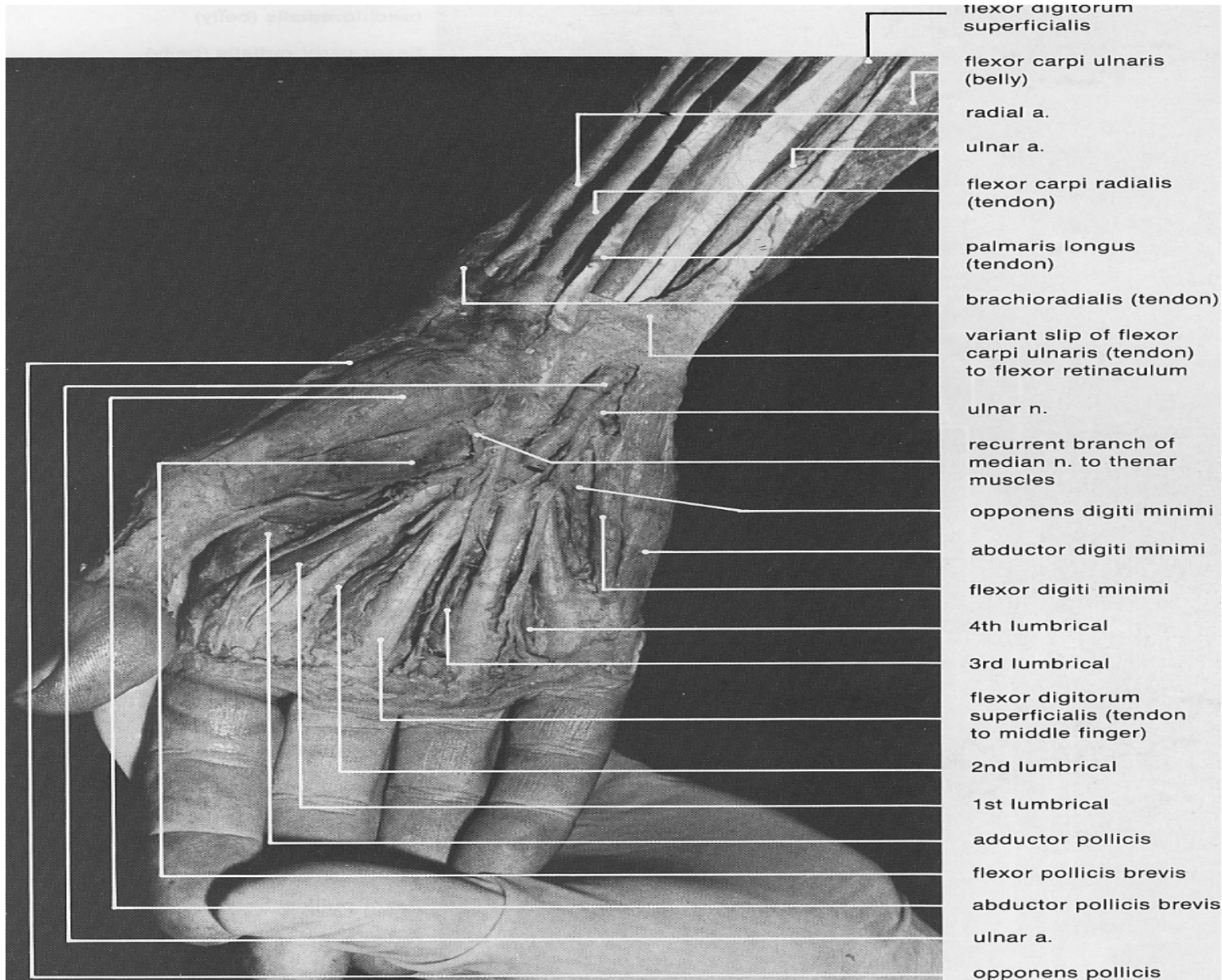




hook of hamate

pin insertion site for **opponens digiti minimi**



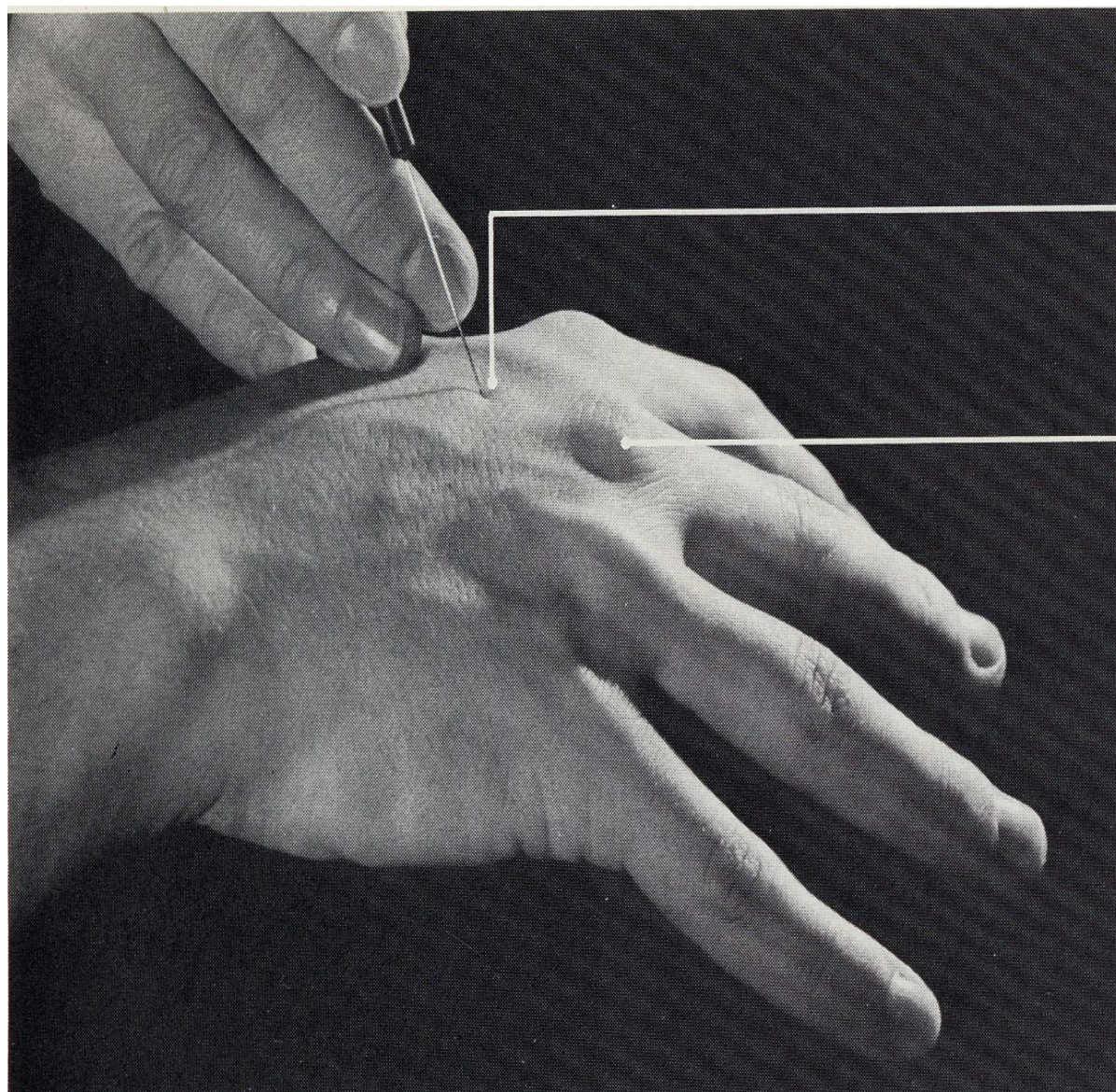






**first dorsal  
interosseou**

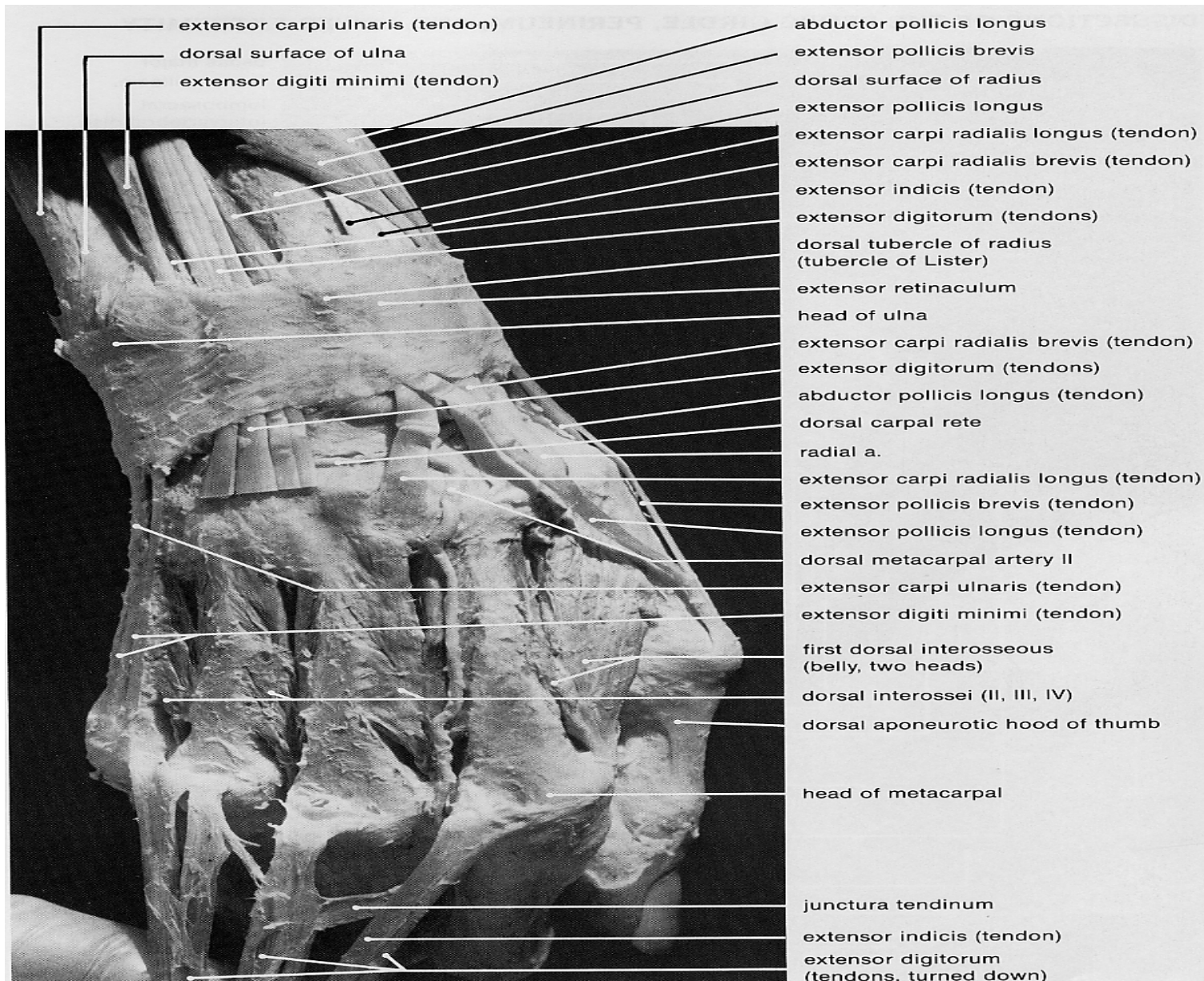




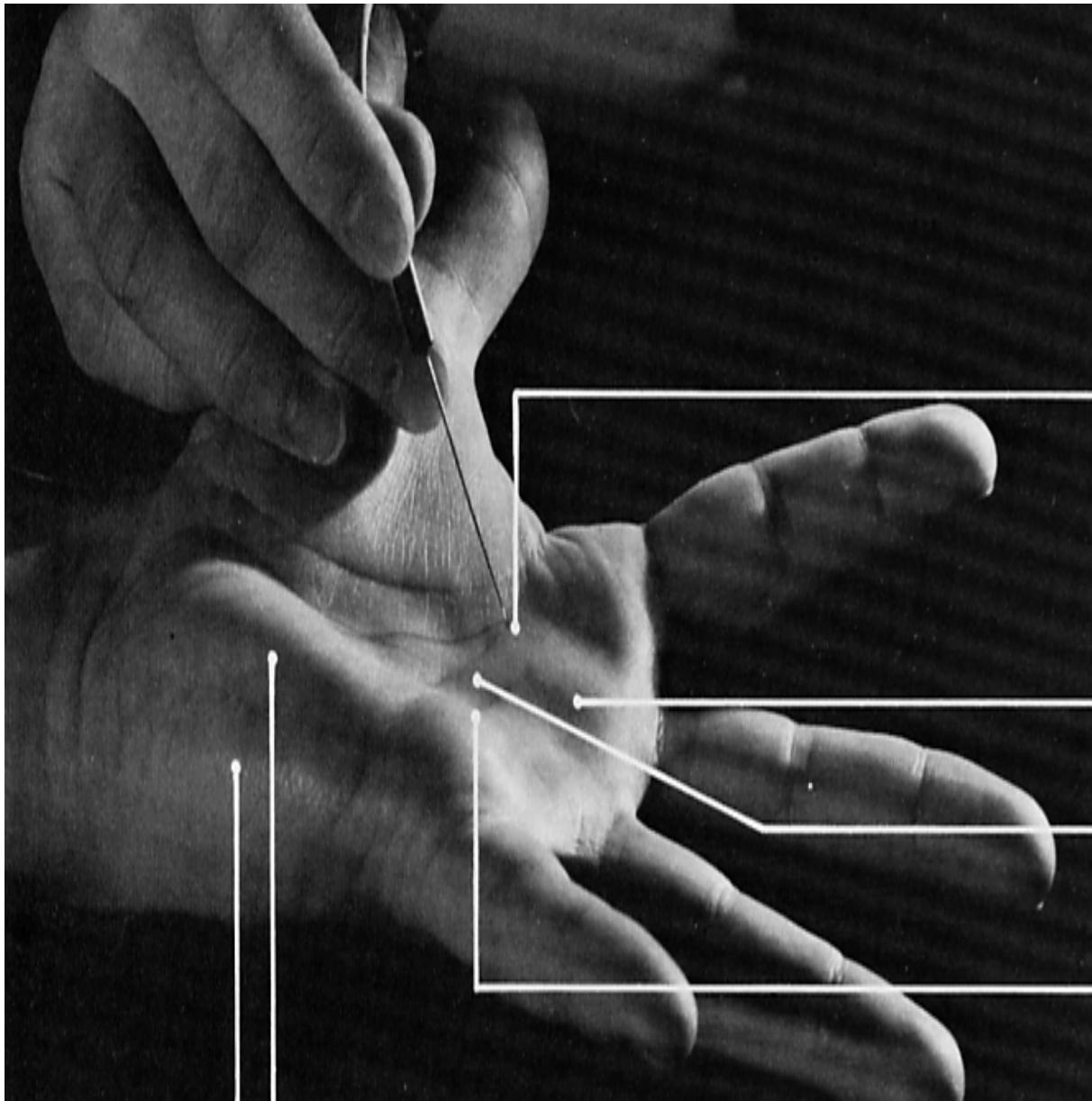
pin insertion site for  
**dorsal interosseous** at second  
intermetacarpal space

head of third metacarpal







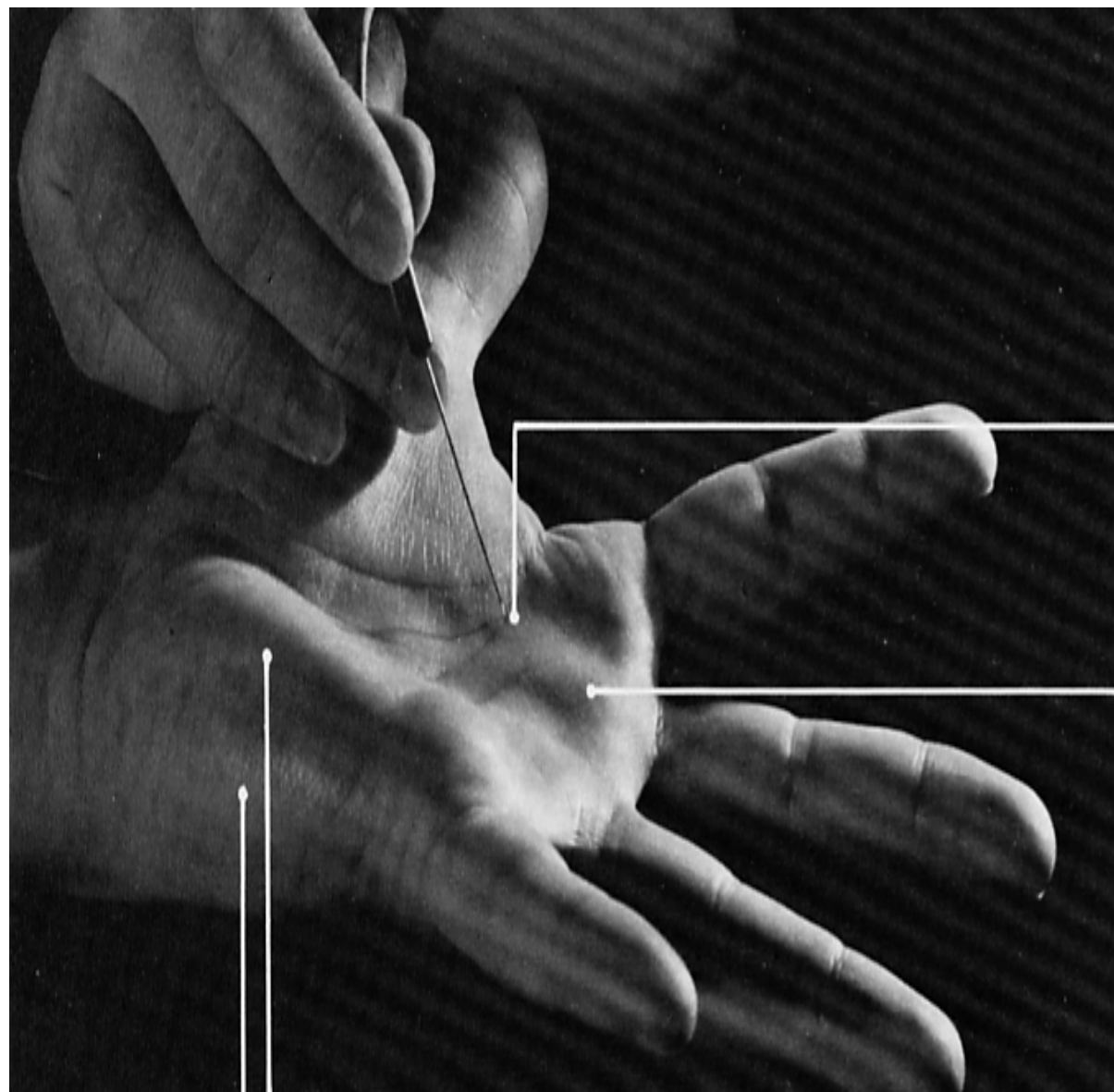


pin insertion site for  
**first palmar interosseous**

third metacarpal head

proximal transverse  
flexion crease of palm

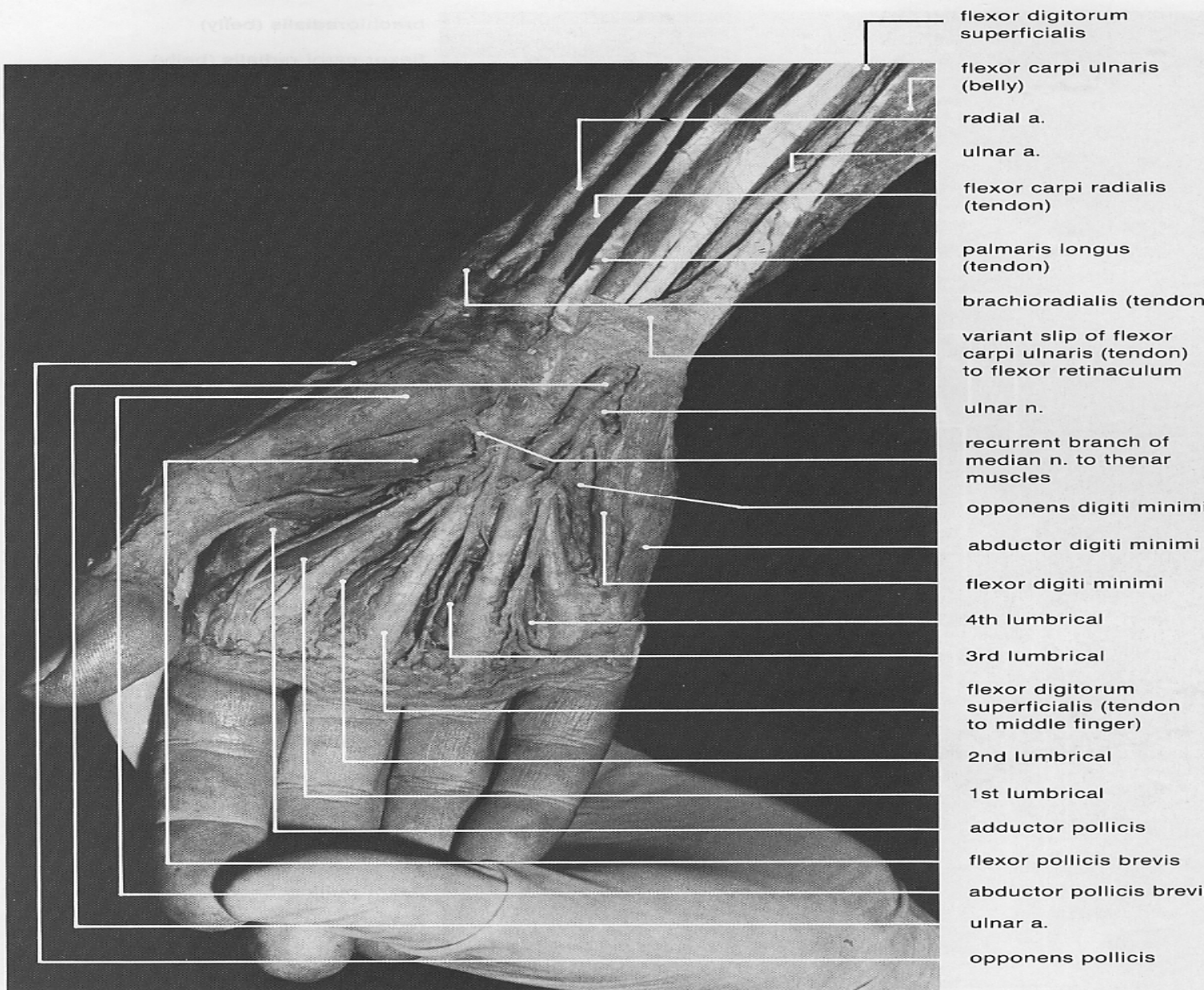
distal transverse  
flexion crease of palm



pin insertion site  
for **second lumbrical**

head of third metacarpal





- flexor digitorum superficialis
- flexor carpi ulnaris (belly)
- radial a.
- ulnar a.
- flexor carpi radialis (tendon)
- palmaris longus (tendon)
- brachioradialis (tendon)
- variant slip of flexor carpi ulnaris (tendon) to flexor retinaculum
- ulnar n.
- recurrent branch of median n. to thenar muscles
- opponens digiti minimi
- abductor digiti minimi
- flexor digiti minimi
- 4th lumbrical
- 3rd lumbrical
- flexor digitorum superficialis (tendon to middle finger)
- 2nd lumbrical
- 1st lumbrical
- adductor pollicis
- flexor pollicis brevis
- abductor pollicis brevis
- ulnar a.
- opponens pollicis