

OPPONENS POLLICIS

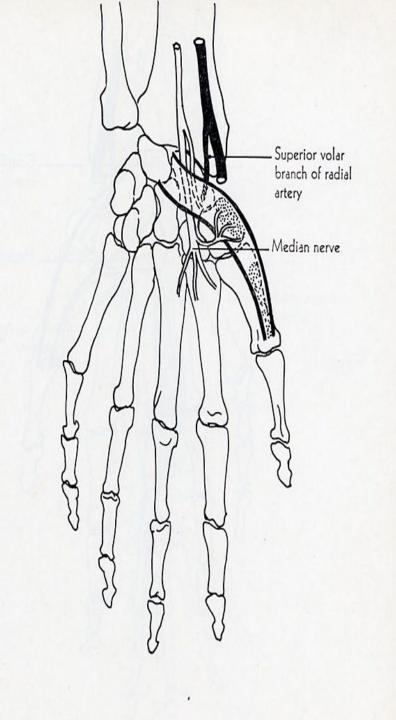
ORIGIN: transverse carpal ligament, ridge on trapezium.

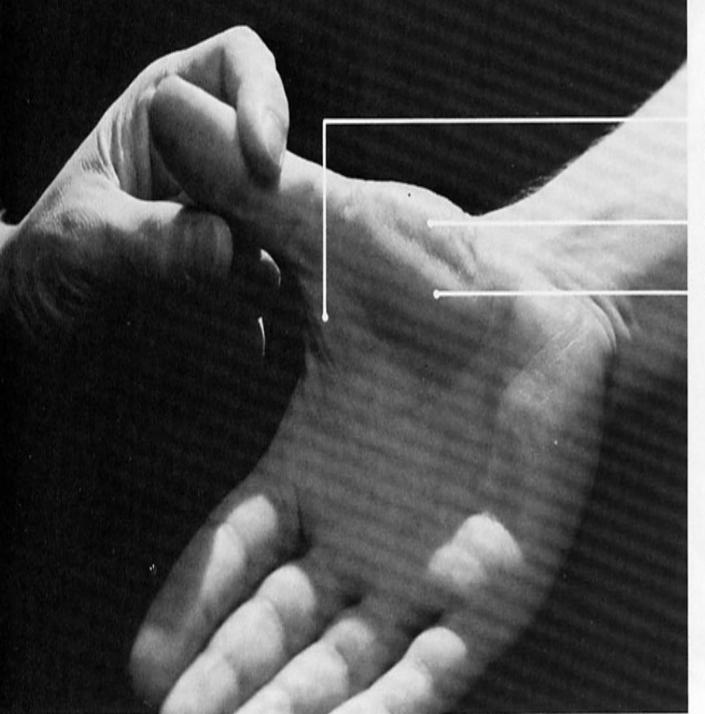
INSERTION: anterior surface, radial side of 1st metacarpal bone.

ACTION: draws 1st mcp bone forwards and medially, opposing thumb to each of the other digits.

NERVE: median nerve.

ROOT: C8, T1 mainly C8.

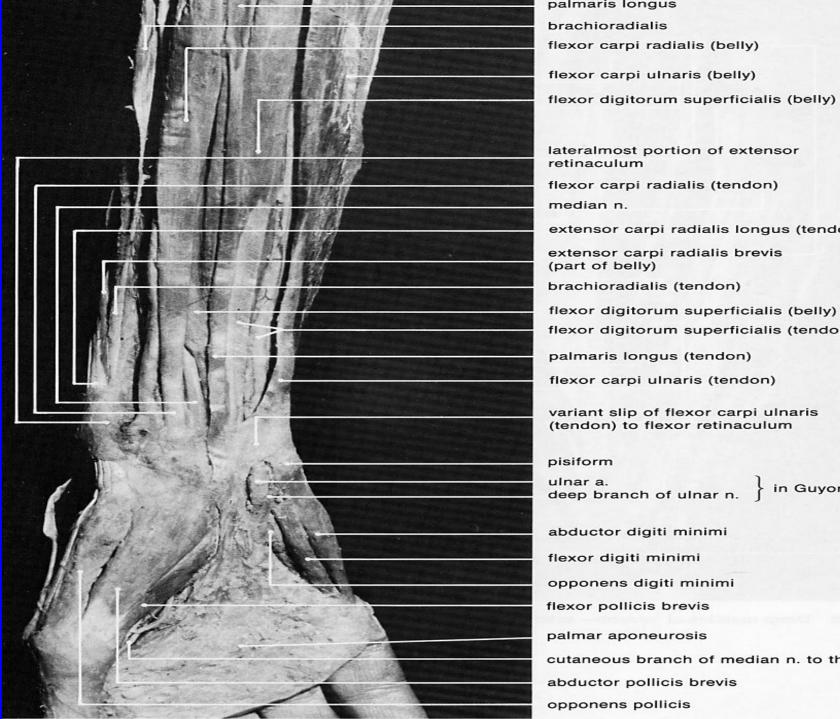




skin fold of first web space overlying adductor pollicis

abductor pollicis brevi

flexor pollicis brevis



palmaris longus brachioradialis flexor carpi radialis (belly) flexor carpi ulnaris (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.

in Guyon's ca deep branch of ulnar n.

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

ABDUCTOR POLLICIS BREVIS

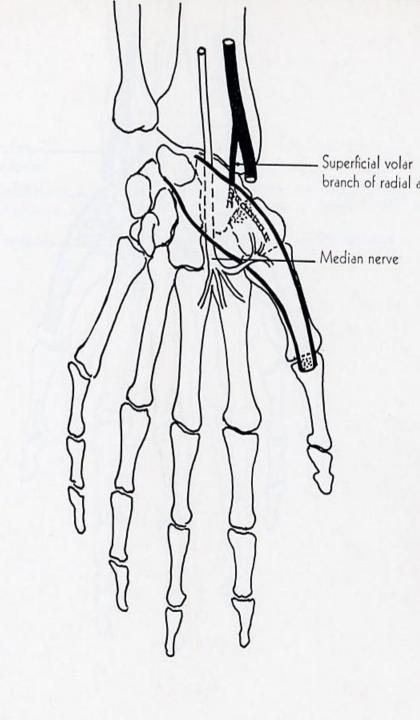
ORIGIN: transverse carpal ligament, scaphoid tuberosity and ridge on trapezium bones.

INSERTION: radial side of base of proximal phalanx of thumb.

ACTION: abducts thumb, draws thumb forward at right angle to palm.

NERVE: median.

ROOT: C8, T1 mainly C8



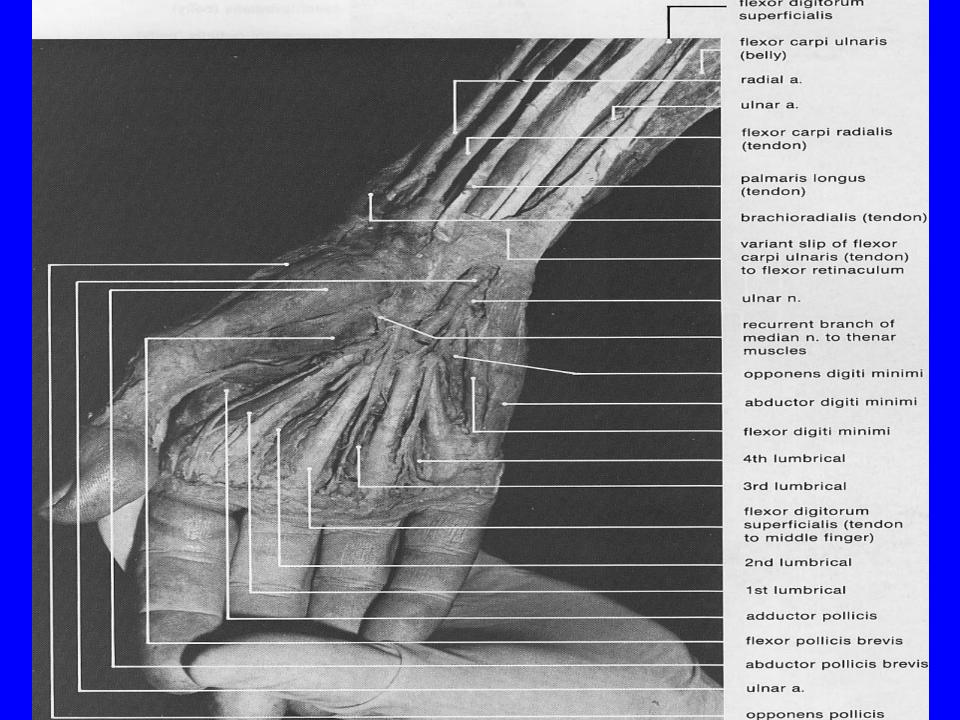


skin fold of first web space overlying adductor pollicis

abductor pollicis brevis

flexor pollicis brevis

hypothenar muscles



FLEXOR POLLICIS BREVIS

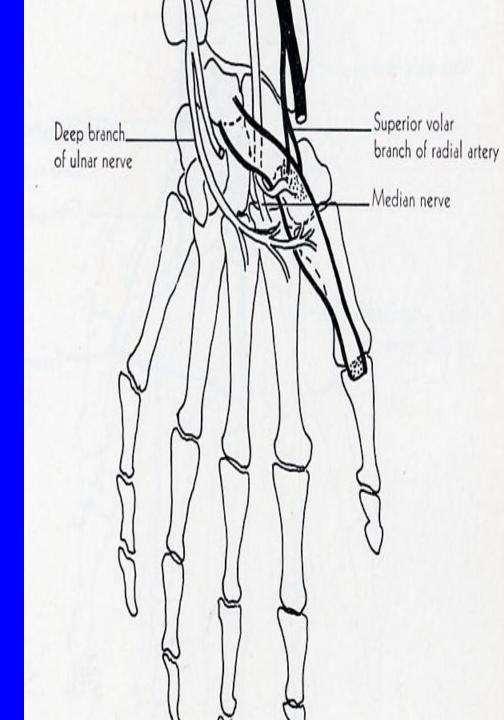
ORIGIN: transverse carpal ligament, ridge on trapezium.

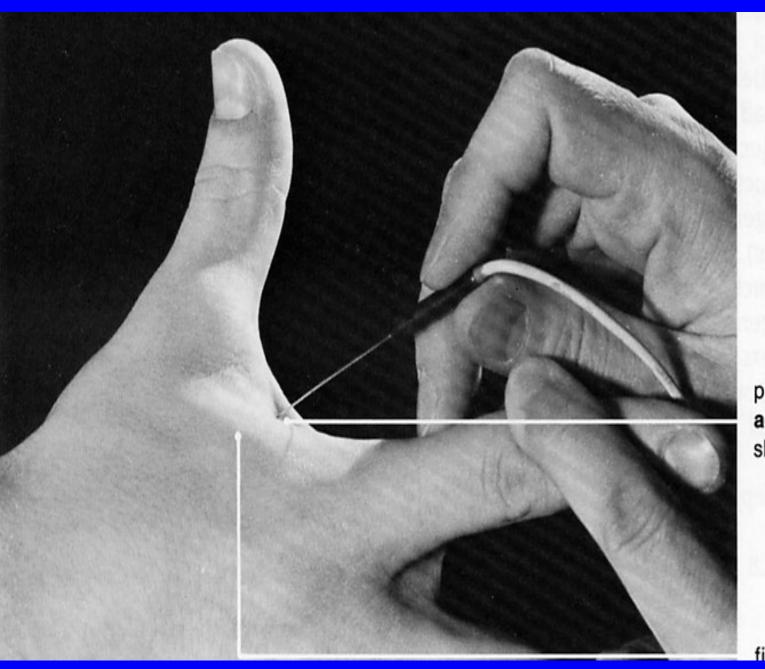
INSERTION: base of proximal phalanx of thumb.

ACTION: flexes proximal phalanx of thumb.

NERVE: superficial head by the median nerve and deep head by the ulnar nerve.

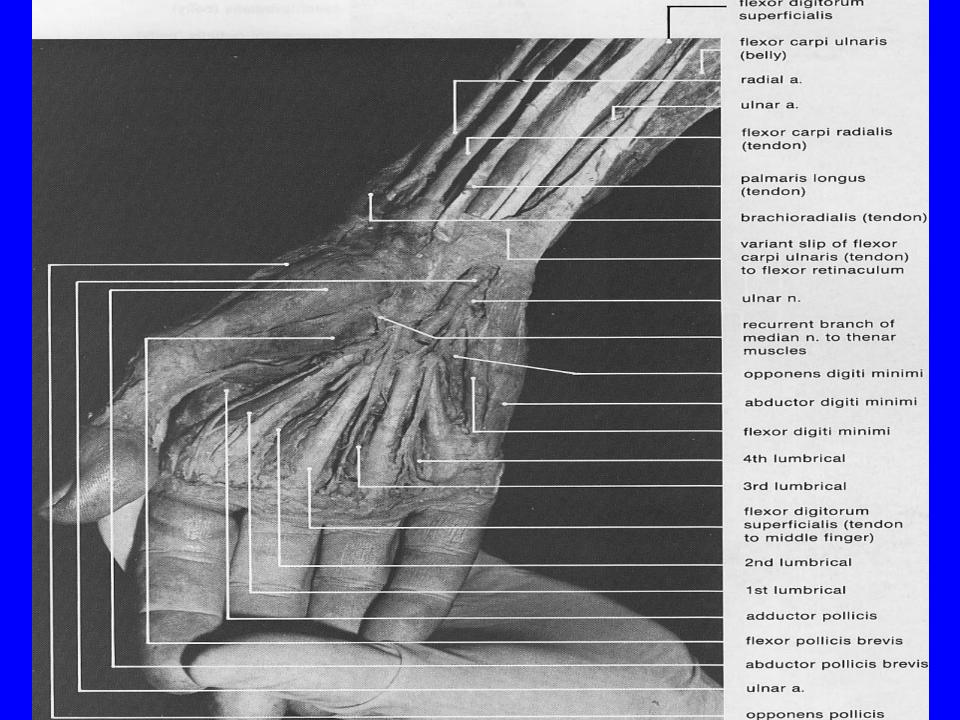
ROOT: C8, T1 mainly C8.





pin insertion site for adductor pollicis throu skin fold of first web sp

first dorsal interosseou



ADDUCTOR POLLICIS

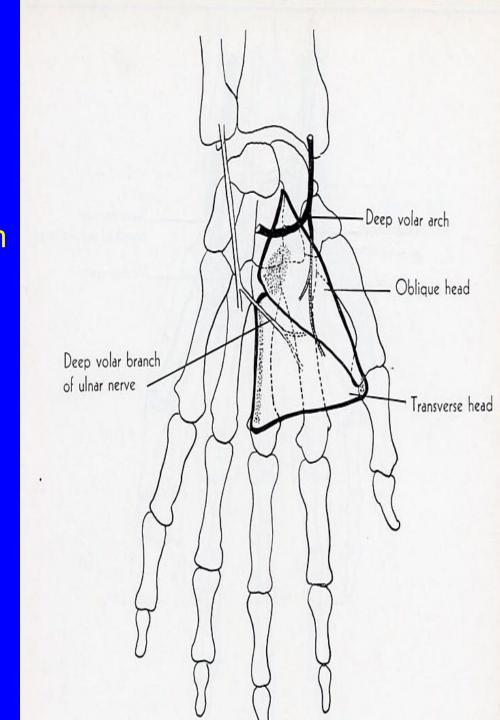
ORIGIN: oblique head from capitate, bases of 2nd and 3rd metacarpal bone, intercarpal ligaments; transverse head from the volar surface of 3rd metacarpal bone.

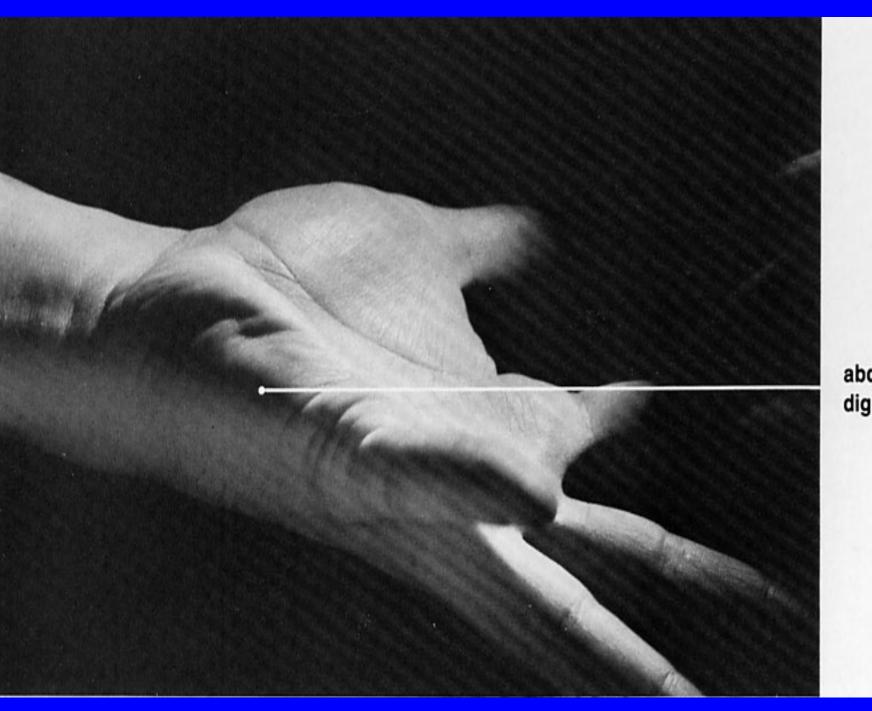
INSERTION: ulnar side of proximal phalanx of thumb.

ACTION: adducts thumb, aids in opposition.

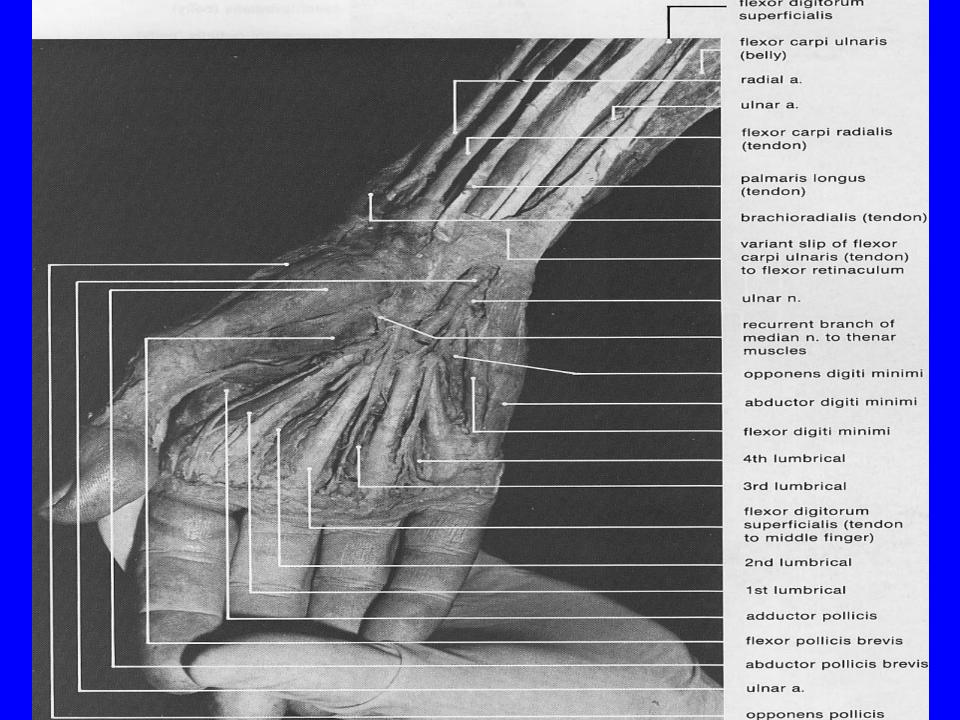
NERVE: deep branch of ulnar.

ROOT: C8, T1 mainly T1





abductor digiti minimi



ABDUCTOR DIGITI MINIMI

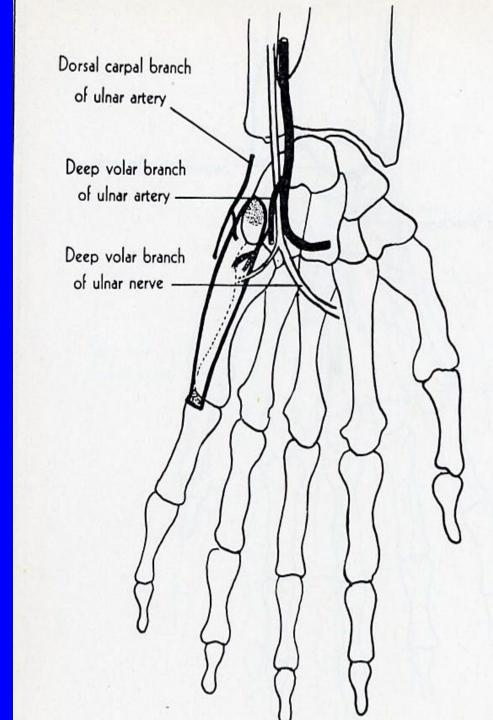
ORIGIN: pisiform bone, tendon of flexor carpi ulnaris.

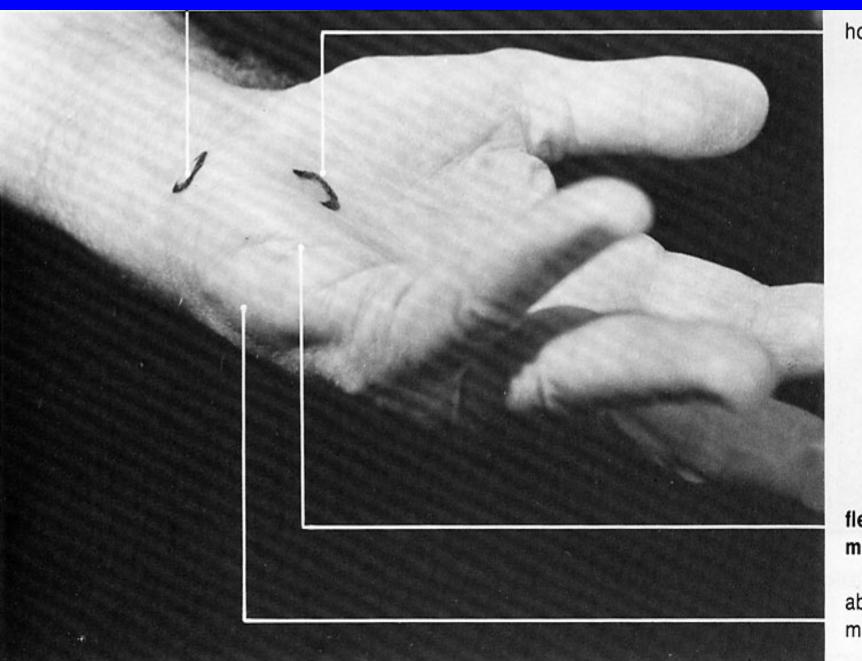
INSERTION: medial side of base of proximal phalanx of fifth digit and aponeurosis of extensor digiti minimi.

ACTION: abducts 5th digit from 4th digit.

NERVE: deep branch of ulnar

ROOT: C8, T1 mainly T1.

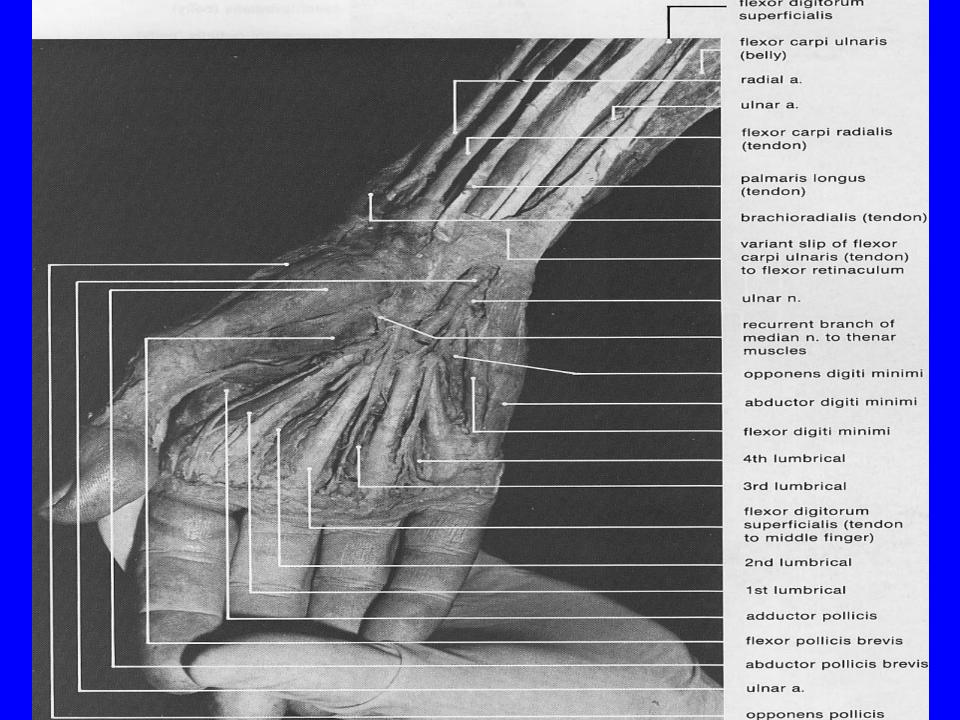




hook of ham

flexor digiti minimi brevi

abductor dig minimi



FLEXOR DIGITI MINIMI

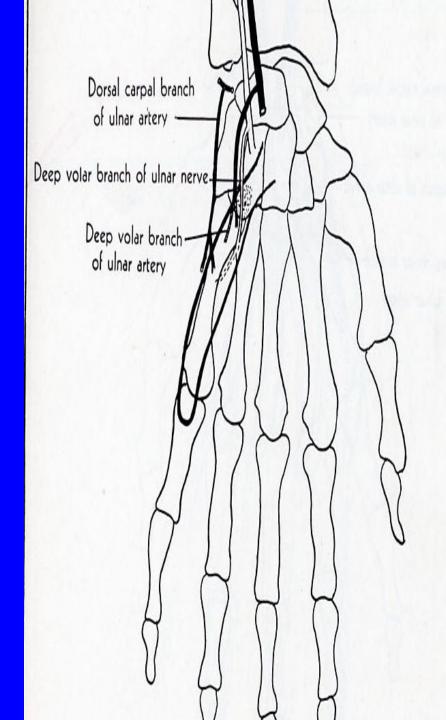
ORIGIN: transverse carpal ligament, hook of hamate.

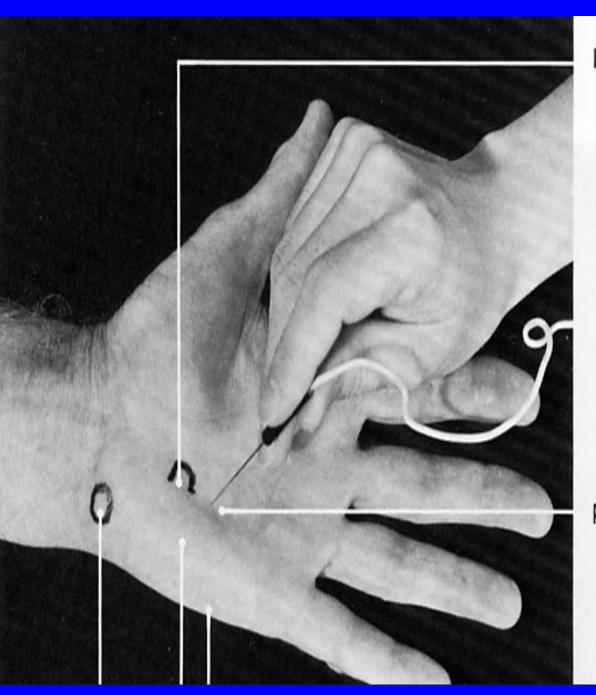
INSERTION: ulnar side of base of proximal phalanx of 5th digit.

ACTION: flexes proximal phalanx of 5th digit.

NERVE: deep branch of ulnar

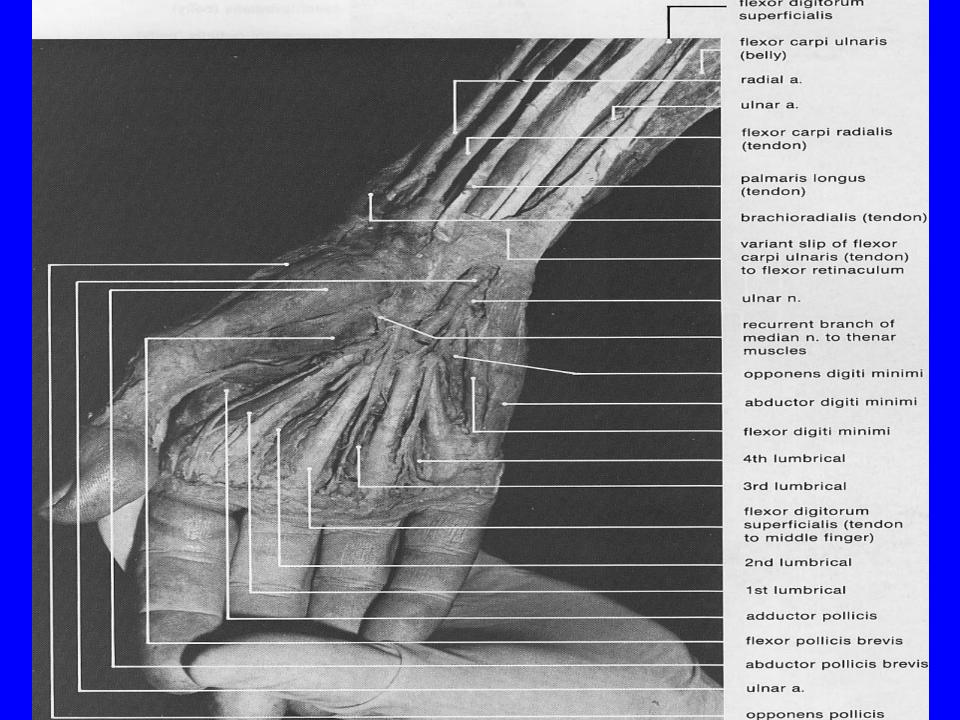
ROOT: C8, T1 mainly T1.





hook of hamate

pin insertion site for opponens digiti mini



OPPONENS DIGITI MINIMI

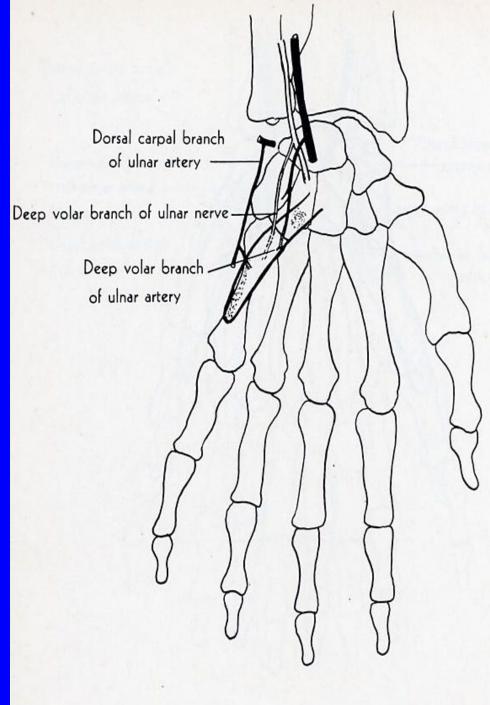
ORIGIN: transverse carpal ligament, hook of hamate.

INSERTION: ulnar margin of 5th mcp bone.

ACTION: draws 5th mcp bone forward, deepens hollow of hand.

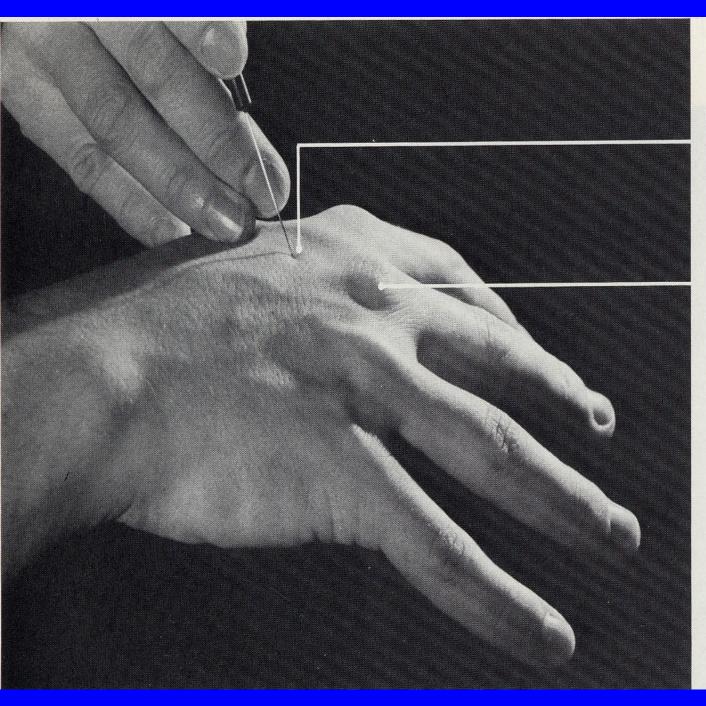
NERVE: deep branch of ulnar

ROOT: C8, T1 mainly T1.



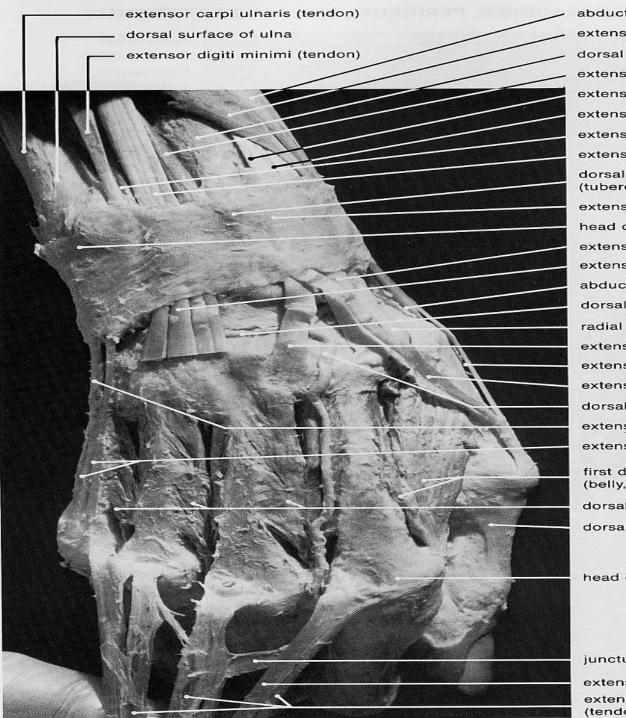


first dorsal interosseou



pin insertion site for dorsal interosseous at second intermetacarpal space

head of third metacarpal



abductor pollicis longus extensor pollicis brevis dorsal surface of radius extensor pollicis longus extensor carpi radialis longus (tendon) extensor carpi radialis brevis (tendon) extensor indicis (tendon) extensor digitorum (tendons) dorsal tubercle of radius (tubercle of Lister) extensor retinaculum head of ulna extensor carpi radialis brevis (tendon) extensor digitorum (tendons) abductor pollicis longus (tendon) dorsal carpal rete radial a. extensor carpi radialis longus (tendon) extensor pollicis brevis (tendon) extensor pollicis longus (tendon) dorsal metacarpal artery II extensor carpi ulnaris (tendon) extensor digiti minimi (tendon) first dorsal interosseous (belly, two heads) dorsal interossei (II, III, IV) dorsal aponeurotic hood of thumb

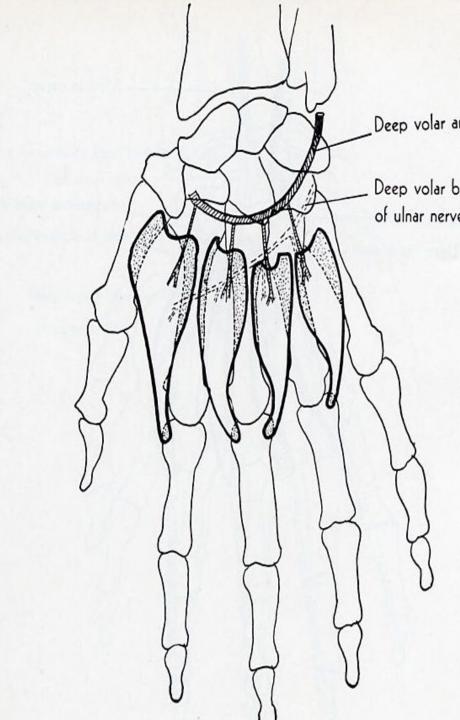
head of metacarpal

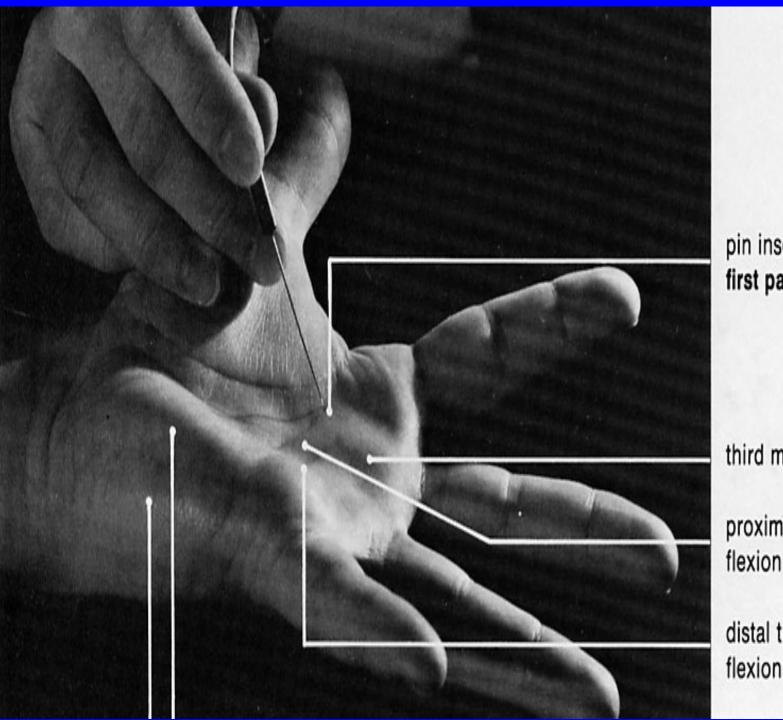
junctura tendinum extensor indicis (tendon) extensor digitorum (tendons, turned down)

DORSAL INTEROSSEI

ORIG: each of the 4 dorsal interossei arises by 2 heads from adjacent sides of mcp bones.

INS:1st into radial side of proximal phalanx of 2nd digit; 2nd into radial side of proximal phalanx of 3rd digit, 3rd into ulnar side of proximal phalanx of 3rd digit, 4th into ulnar side of proximal phalanx of 4th digit. ACTION: abducts 2nd, 3rd and 4th digits from the mid-line of the hand. NERVE: deep branch of the ulnar. ROOT: C8, T1 mainly T1.





pin insertion site for first palmar interosseous

third metacarpal head proximal transverse flexion crease of palm

distal transverse flexion crease of palm

PALMAR INTEROSSEI

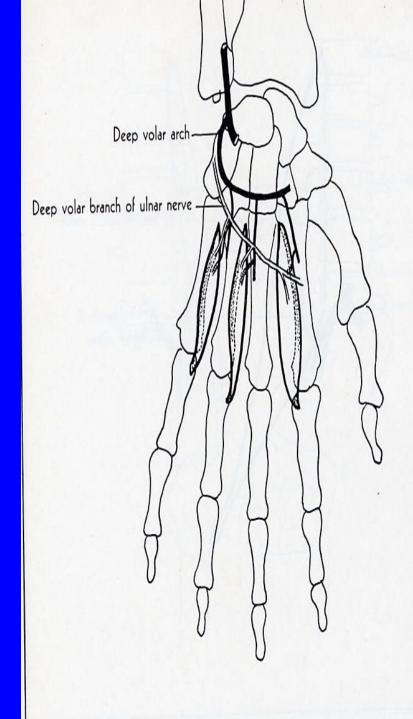
ORIG: 3 palmar interossei; 1st from ulnar side of 2nd mcp, 2nd from radial side side of 4th mcp, 3rd from radial side of 5th mcp.

INS:1st into ulnar side of proximal phalanx of 2nd digit; 2nd into radial side of proximal phalanx of 4th digit, 3rd into radial side of proximal phalanx of 5th digit.

ACTION: adducts digit into which it is inserted towards the 3rd digit.

NERVE: deep branch of the ulnar.

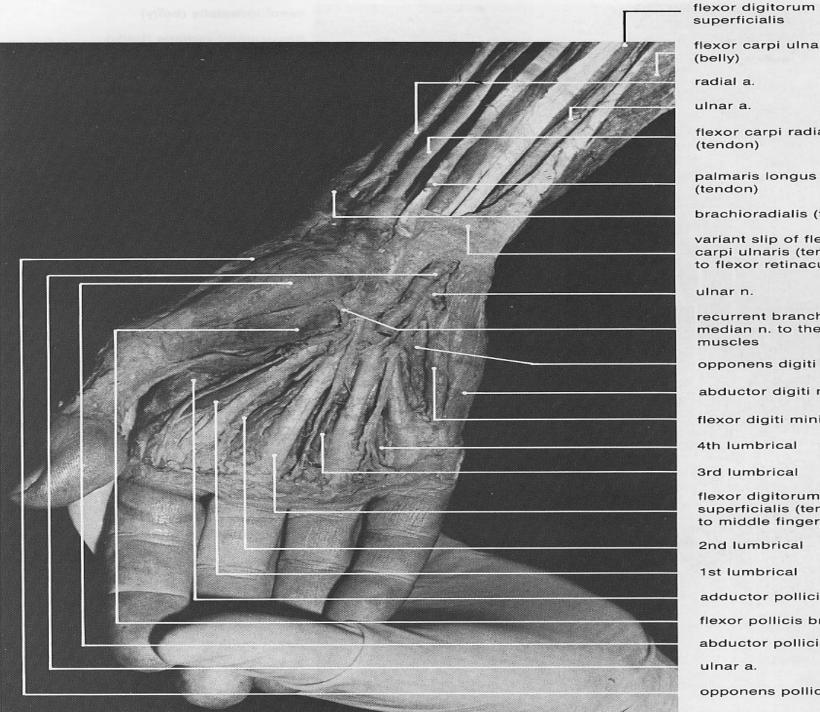
ROOT: C8, T1 mainly T1.





pin insertion site for second lumbrical

head of third metacarpal



flexor digitorum

flexor carpi ulnaris

flexor carpi radialis

brachioradialis (tendon

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

recurrent branch of median n. to thenar

opponens digiti minim

abductor digiti minimi

flexor digiti minimi

flexor digitorum superficialis (tendon to middle finger)

adductor pollicis

flexor pollicis brevis

abductor pollicis brevi

opponens pollicis

ORIG: 4 lumbricals, all from FDP tendons; 1st from radial side of tendon for 2nd digit, 2nd from radial side side of tendon for 3th digit, 3rd from adj. sides of tendons for 3th and 4th digits, 4th from adjacent sides of tendons for 4th and 5th digits.

INS: with tendons of EDC and interossei into bases of terminal phalanges of medial 4 digits.

ACTION: flex fingers at mcp joints, extend fingers at pip joints.

NERVE: median to lateral 2, deep branch of the ulnar to med.2 lumbricals.

ROOT: C8, T1 mainly T1.

LUMBRICALES

