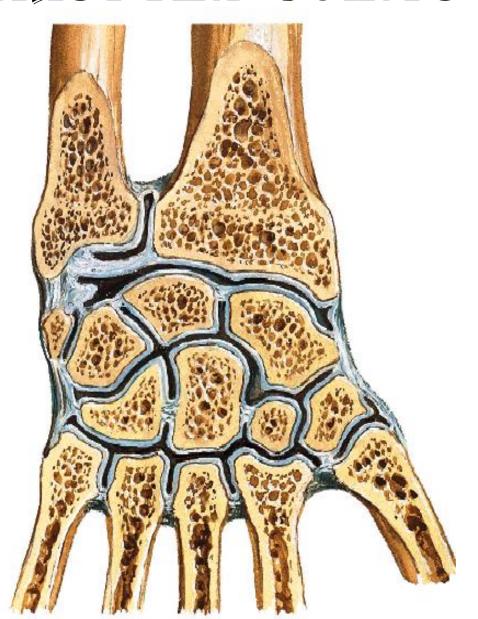
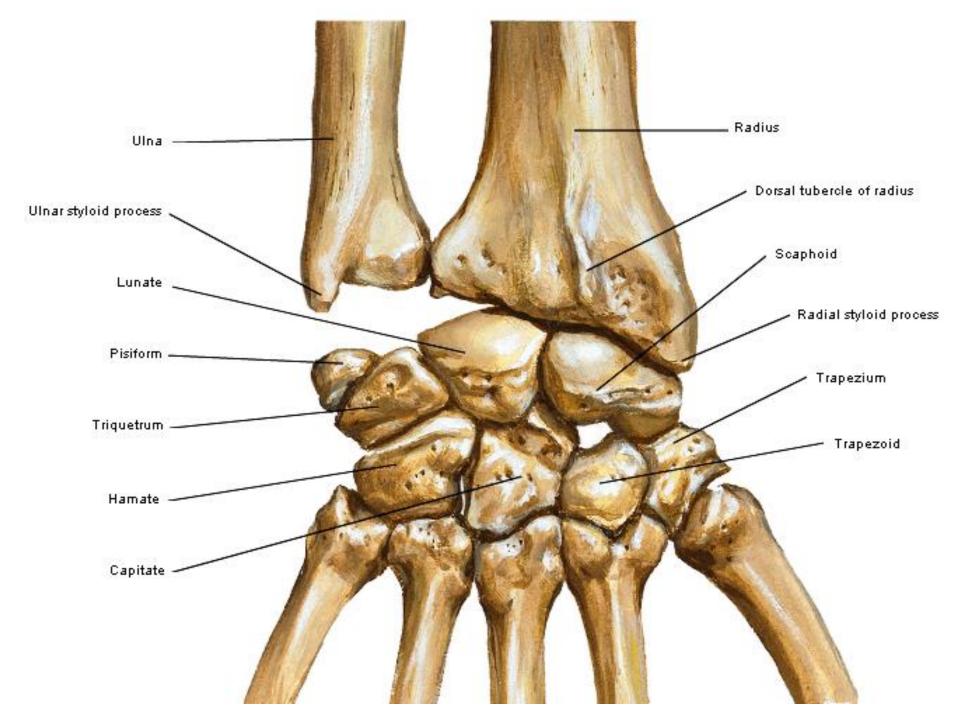
WRIST AND JOINTS OF THE HAND



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Type:- Synovial

Variety:- Ellipsoid

Articular Surface:-

Above:- Inferior surface of lower end of radius articular disc of inferior radioulnar joint

Below:-

Proximal row of carpal bones

(scaphoid, lunate, triquetral)

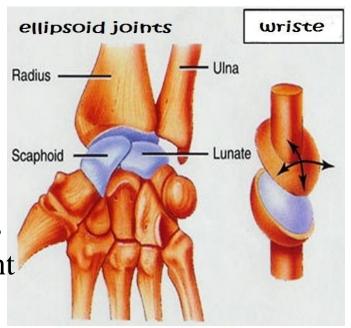
N.B. Ulna never share in wrist joint pisiform also doesn't share in wrist joint

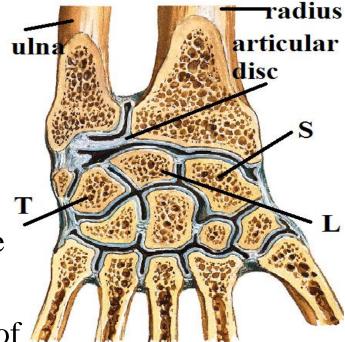
Capsule

Attachment: To margins of the articular surface

Characters: Thin

Synovial membrane:-Lines the inner surface of the capsule.





Ligaments:-

Anterior radio carpal ligament

Extends from anterior margin of lower end of radius to front of carpal bones

Posterior radio carpal ligament

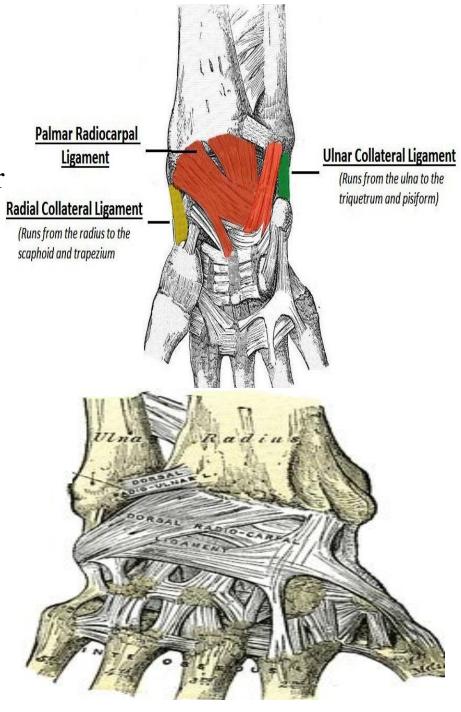
Extends from posterior margin of lower end of radius to back of carpal bones

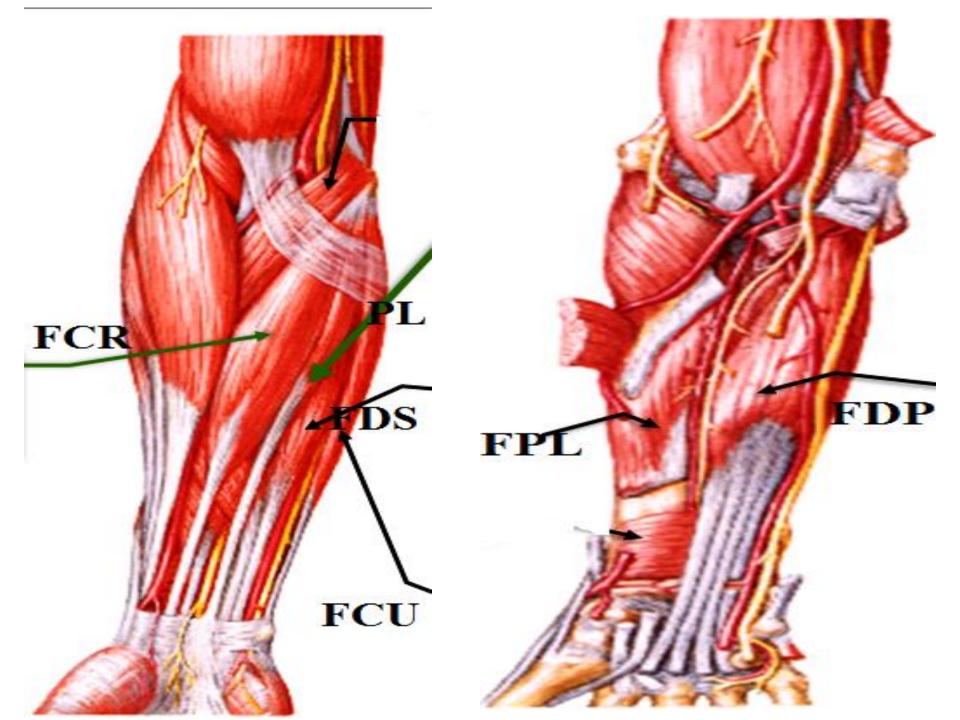
Ulnar collateral (medial) ligament

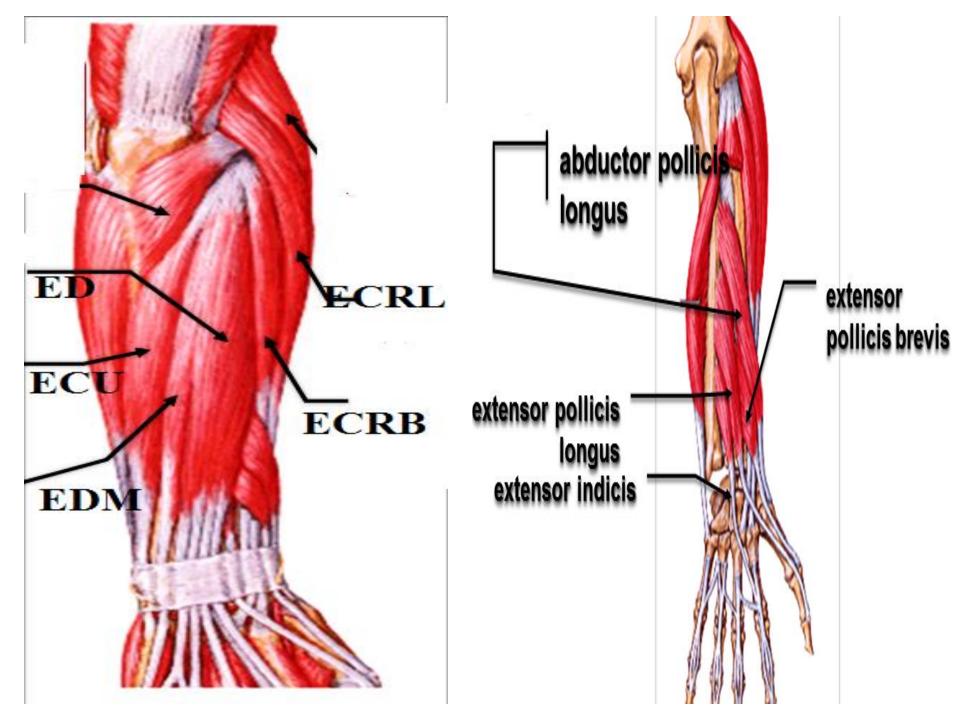
Extends from tip of styloid process of ulna to pisiform and medial side of triquetral bones

radial collateral (lateral) ligament

Extends from tip of styloid process of radius to lateral side of scaphoid





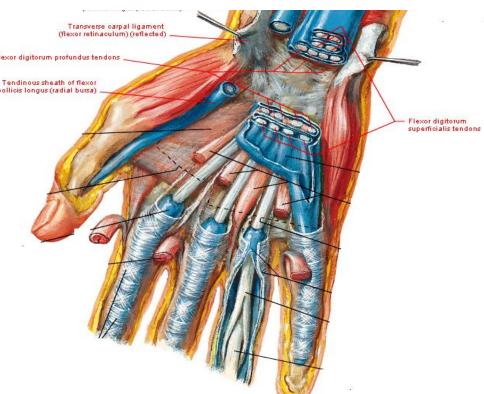


Relations

Anteriorly:

- Contents of the carpal tunnel
- 1-Median nerve
- 2-Tendons of flexor digit. superficialis
- 3- Tendons of flexor digi. profundus
- 5-Tendon of flexor pollicis longus
- 5-Tendon of flexor carpi radialis





Relations

Posteriorly:

contents of 2nd – 6th compartments of the extensor retinaculum

2nd compartment contains: ECRL-ECRB

3rd compartment contains: EPL

4th compartment contains:

1-ED

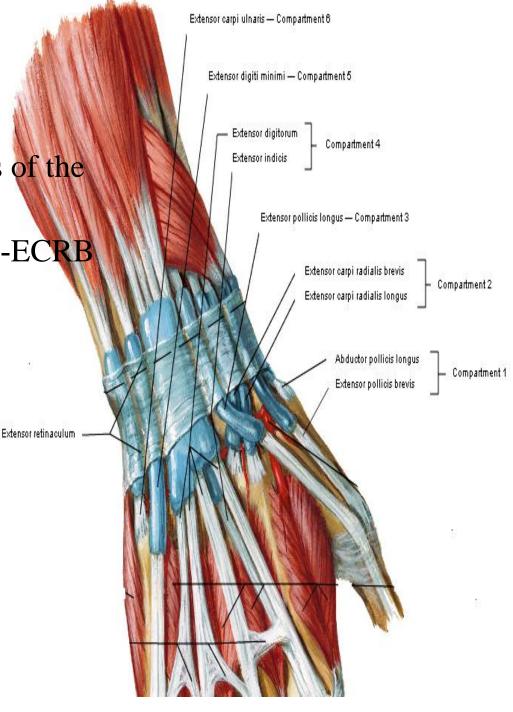
2-EI

3-ant. interosseous art.

4-post. interosseous n.

5th compartment contains: EDM

6th compartment contains: ECU



Relations

Laterally:-

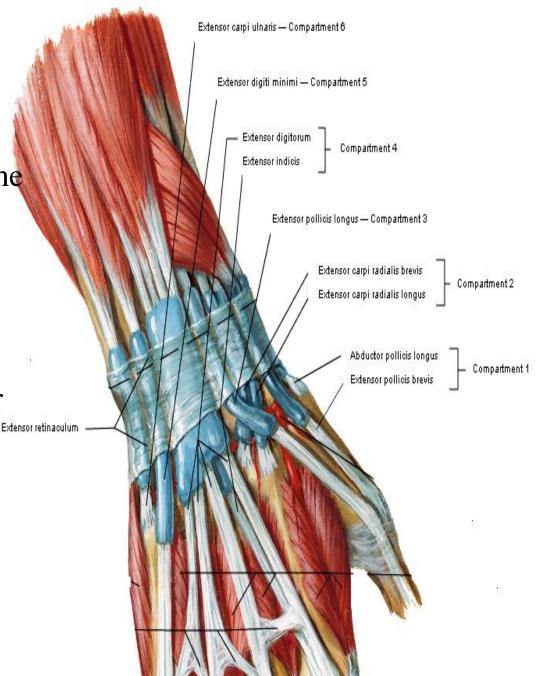
contents of 1st compartment of the extensor retinaculum

Abductor pollicis longus.

ext. pollicis brevis.

Medially:

dorsal cutaneous branch of ulnar nerve



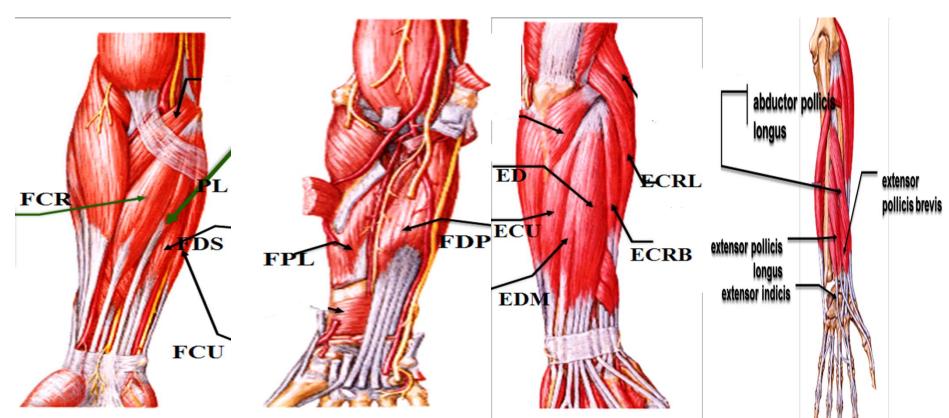
Movements

Flexion: FCR PL FDS FCU FDP FPL

Extension: ECRL ECRB ED EDM ECU EI EPL

Abduction:- FCR ECRL ECRB

Adduction:- FCU ECU



Intercarpal joints:-

plane Synovial joints between carpal bones

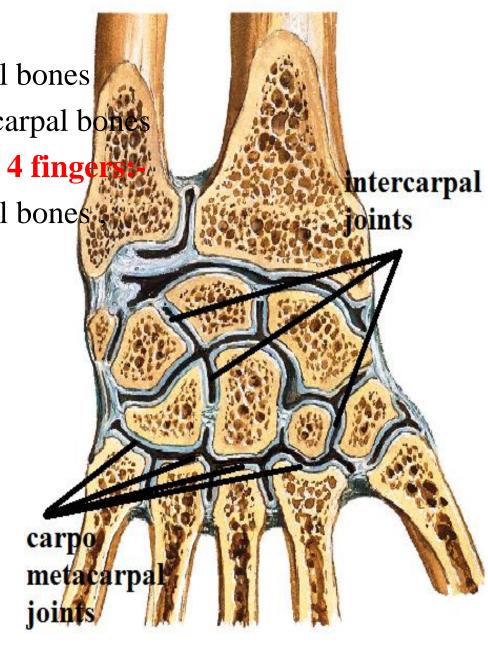
Allow sliding movements between carpal bones

Carpometacarpal joints of medial 4 finger

plane Synovial joints between carpal bones

bases of metacarpal bones

Allow sliding



Carpometacarpal joint of thumb:-

Saddle synovial joint between trapezium & base of 1st metacarpal bone allow

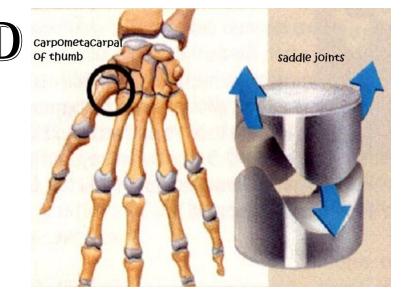


Extension:- EPL & EPB

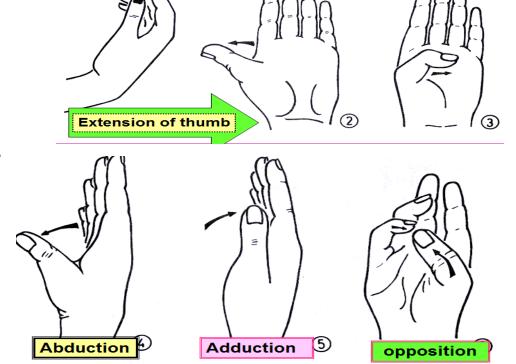
Abduction:- APL & APB

Adduction: - Adductor pollicis

Opposition:- Opponense pollicis



Flexion of thumb



Position of rest

Metacarpophalangeal joint:-

ellipsoid synovial joints

Allow

Flexion FDS & FDP

Extension: - ED, EI, EDM

Adduction: Palmar interossei

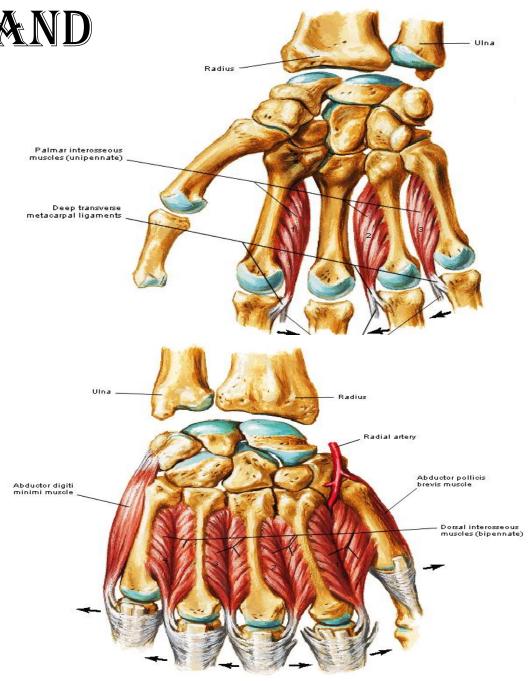
Abduction:- dorsal interossei

Interphalageal joints

hinge synovial joints allow

flexion,

extension



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