Competencies AN2.29

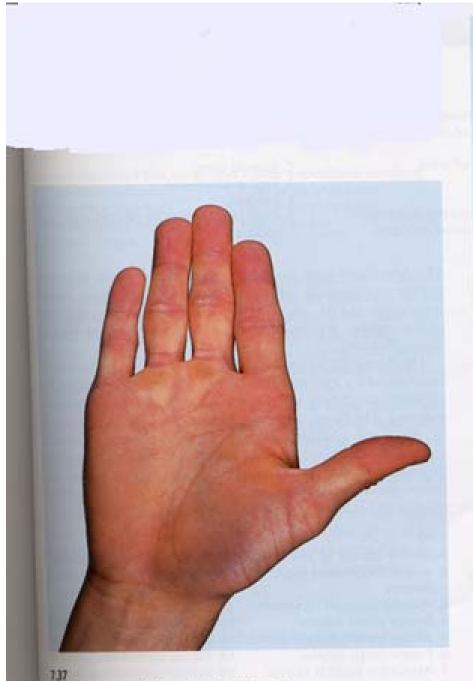
■ AN2.29

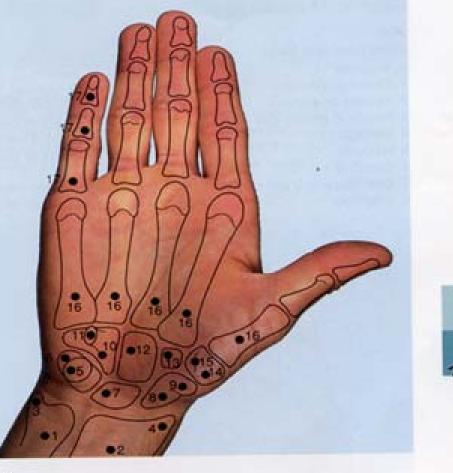
- □ TYPE OF THE JOINT
- BONES FORMING THE JOINT
- RELATIONS OF THE JOINT
- MOVEMENTS AND AXIS
- LIGAMENTS OF THE JOINT
- MUSCLES CARRYING OUT THE MOVEMENTS
- NERVE SUPPLY & ARTERIAL SUPPLY
- ACTIONS

References: google images

CARPOMETACARPAL JOINT OF THE THUMB AS TRAPEZIOMETACARPAL JOINT OR BASAL JOINT OF THE THUMB

-type of joint : saddle or sellar type of Synovial joint -bones : distal articular surface of trapezium Base of the 1st metacarpal bone





7.38

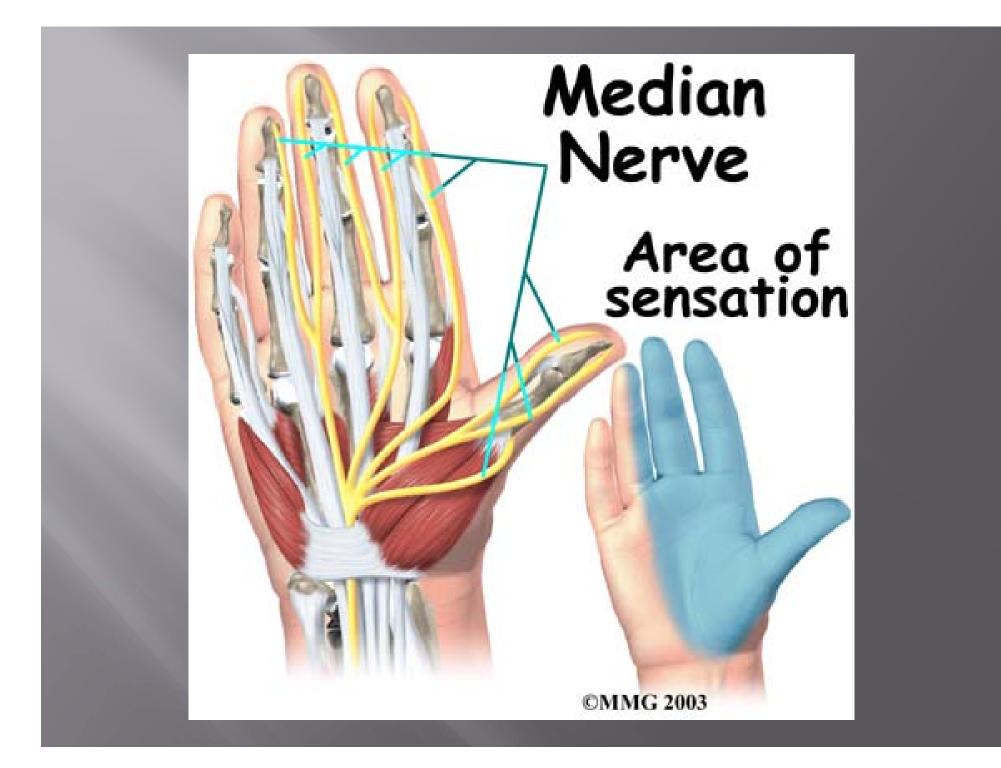
1 Ulna

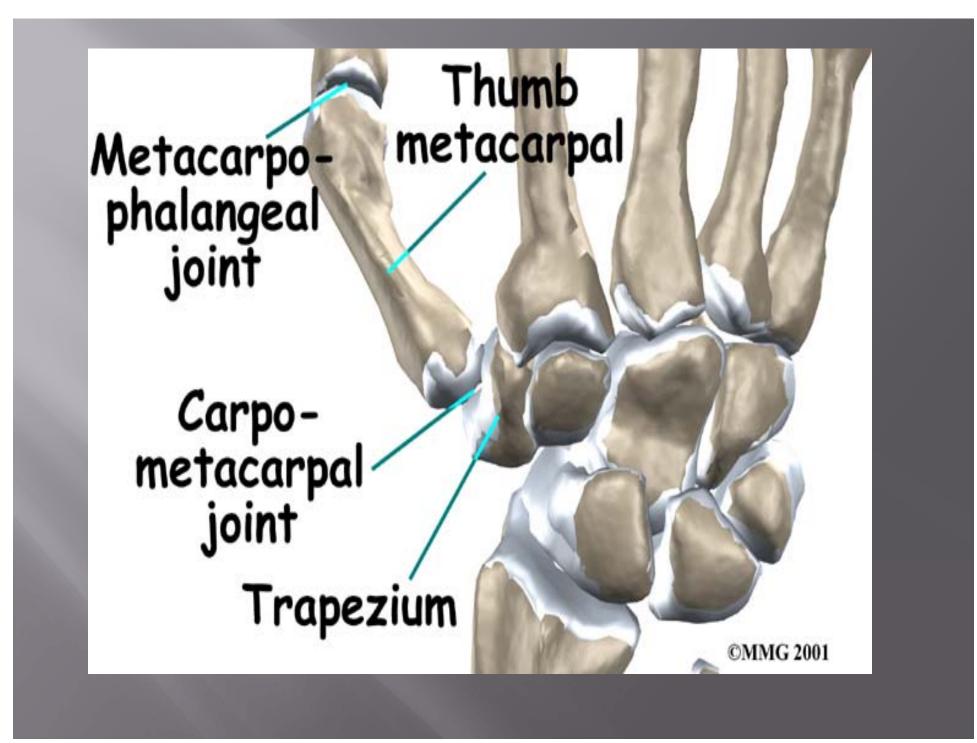
Anterior aspect of the wrist and hand: bones Note the relation of bones to the skin creases 10 Hamate

- 2 Radius
- 3 Ulnar styloid process
- 4 Radial styloid process
- 5 Pisiform
- 6 Triquetral
- 7 Lunate
- 8 Scaphoid
- 9 Scaphoid tubercle

- 11 Hook of hamate
- 12 Capitate
- 13 Trapezoid
- 14 Trapezium
- 15 Ridge of trapezium
- 16 Metacarpals 1-5
- **17 Phalanges**

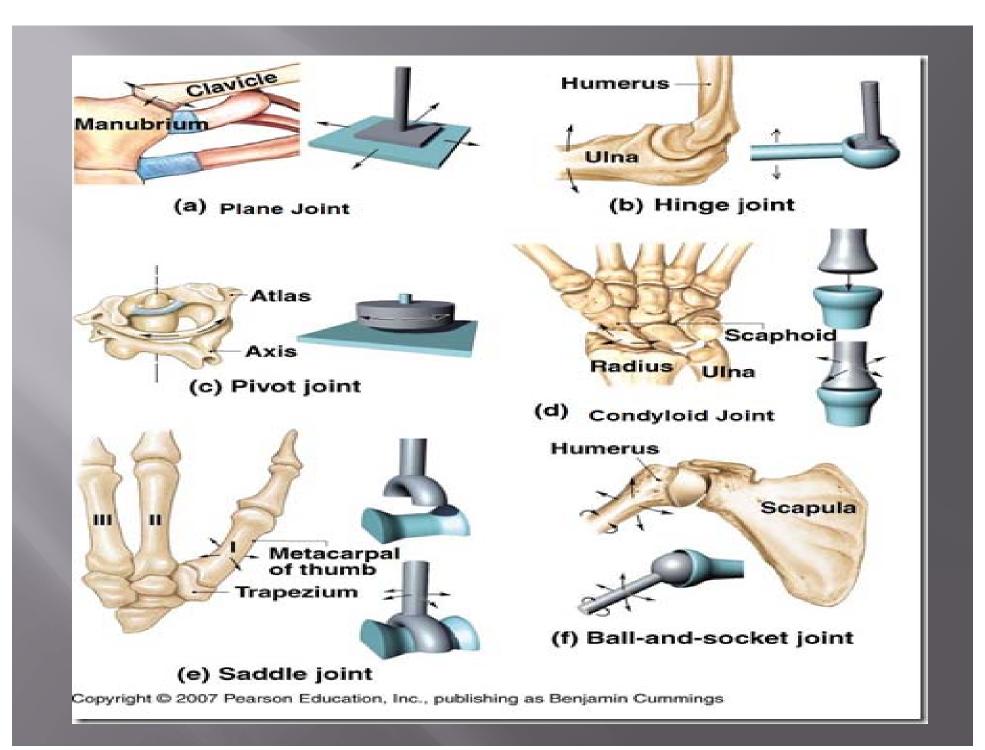
Anterior aspect of the wrist and hand





Synovial joints

- According to shape of the articular surfaces:
- -plane variety -hinge joint -pivot joint
- -saddle or sellar variety :allows wide range of movements : examples are:
 - Ellipsoid type



Ligaments of the joint:

Capsular ligament
Lateral ligament
Dorsal ligament
Palmar ligament

relations

Front
Back
Medial
lateral

Joint capsule

Extensor pollicis brevis

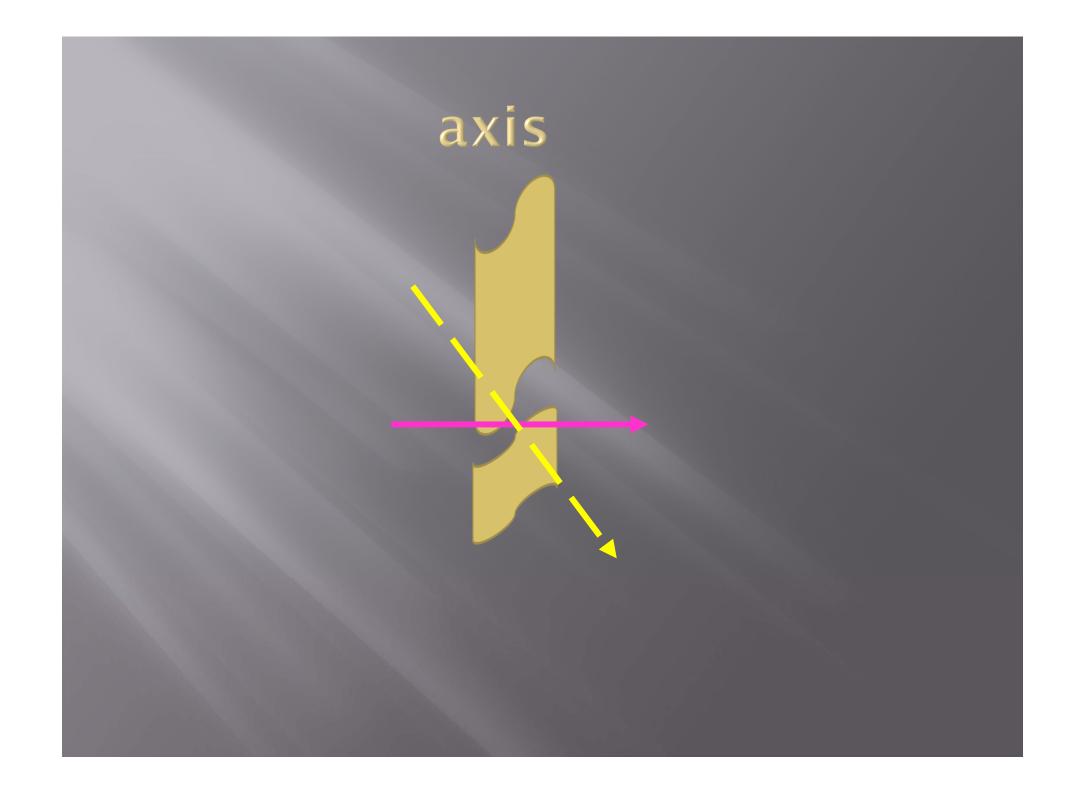
Trapezium

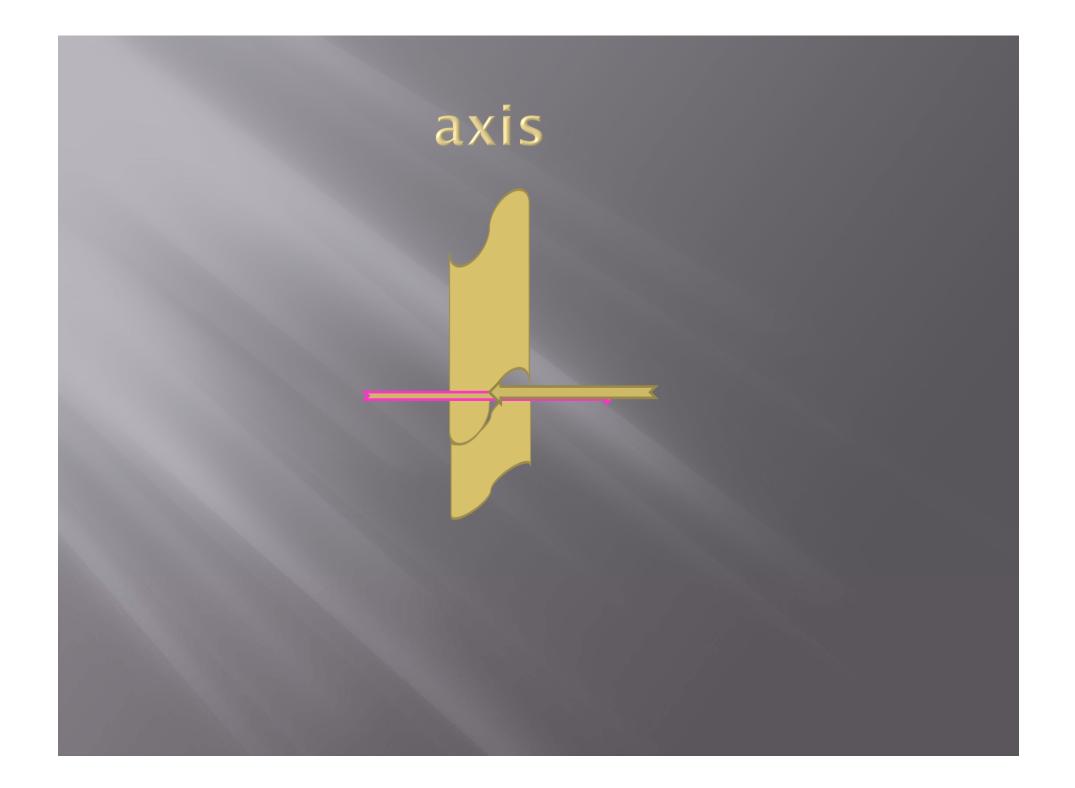
Abductor pollicis longus

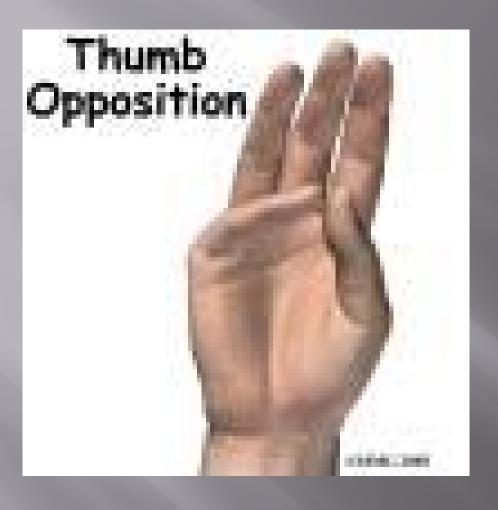
Movements, AXIS and Muscles:

- Flexion , extension : TRANSVERSE AXIS. , Conjunct medial, lateral rotation
- Abduction, adduction: ANTERO-POSTERIOR AXIS Opposition: ABDUCTION FLEXION OPPOSITION
 circumduction

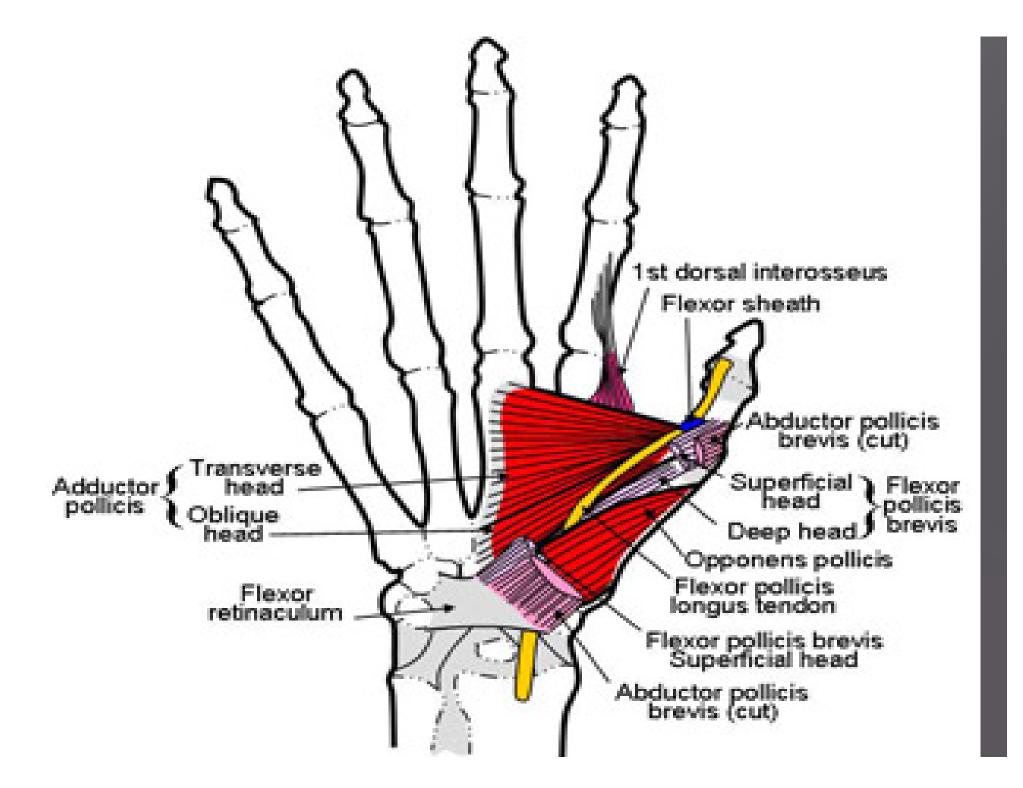
-:muscles producing movements:-







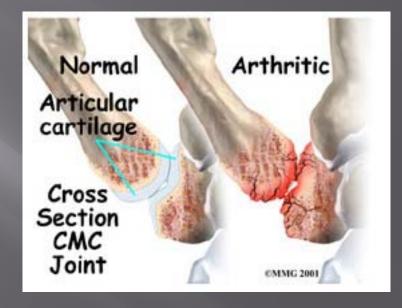
Characteristic of human hand



Blood supply:radial artery nerve supply:median nerve

Applied anatomy:
 -the thumb pain: arthritis :

 ligaments and joint
 capsule become
 thin,weak,unstable
 and painful
 Arthrodesis: bone fusion



QUERVAIN'S TENOSYNOVITIS : tendons of extensor pollicis brevis & abductor pollicis longus get inflamed leads to painful movements of the thumb

Functinal two units

Radial tripod

Medial hook