Muscle of neck and upper limbs

Dr.Priti Acharya

Muscle of Neck

Trapezius

Sternocleidomastoid

Trapezius

Origin-On the occipital bone, the ligamentum nuchae, and the spinous processes of T01–T12.

Insertion- inserts on the lateral third of the clavicle, as well as the acromion and scapular spine of the scapula

Action- To stabilize and move the scapula.

Sternocleidomastoid

- Origin- From the manubrium of the sternum and the medial third of the clavicle to the skull behind the ear, and raise a low ridge diagonally across the side of the neck.
- Insertion- inserts at the mastoid process of the temporal bone
- Action-Rotation of the head to the opposite side or obliquely rotate the head.

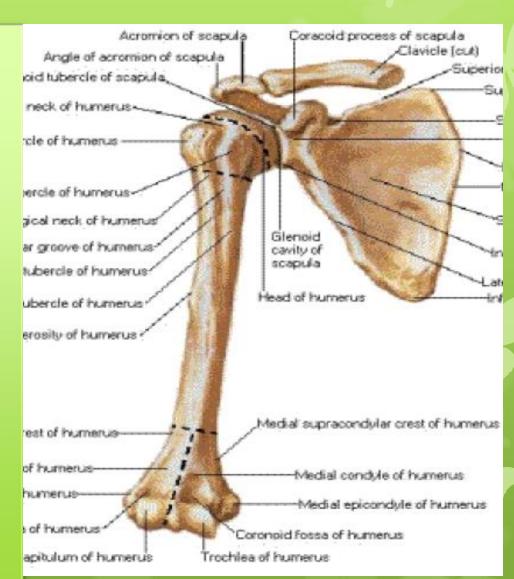
Components

- Pectoral girdle
- O Arm
- Forearm
- Hand



Pectoral girdle

- Consist of clavicle and scapula.
- Transmits the weight of upper limb to axis.
- Clavicle articulates with scapula and sternum.
- Scapula lies on dorsal surface of body.



Clavicle

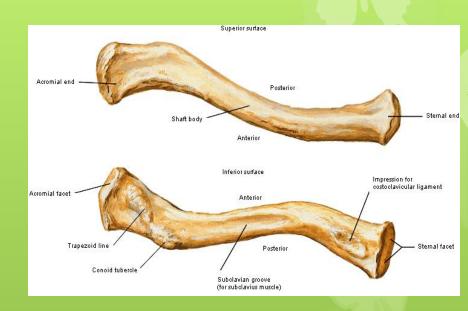
- Modified long bone
- Posses no medullary cavity
- Horizontally placed bone



Two ends:

- i. Sternal end: articulates with sternum and form sternoclavicular joint.
- ii. Acromial end: articulates with acromial process of scapula to form acromioclavicular joint.

Shaft





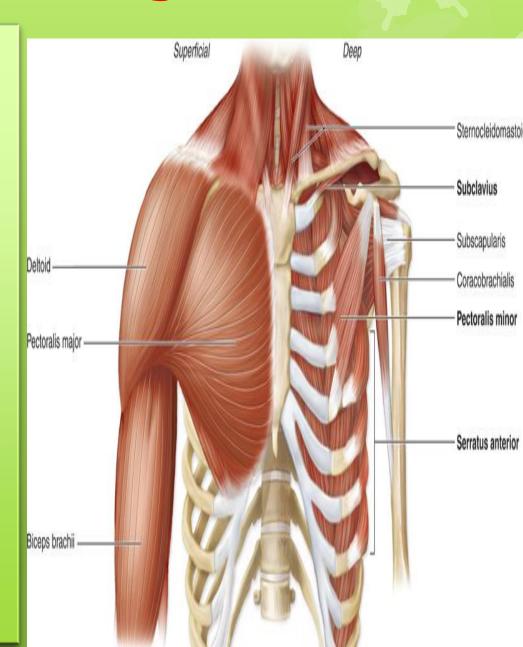
Muscles of pectoral region

O Pectoralis major

O Pectoralis minor

O Subclavius

Serratus anterior

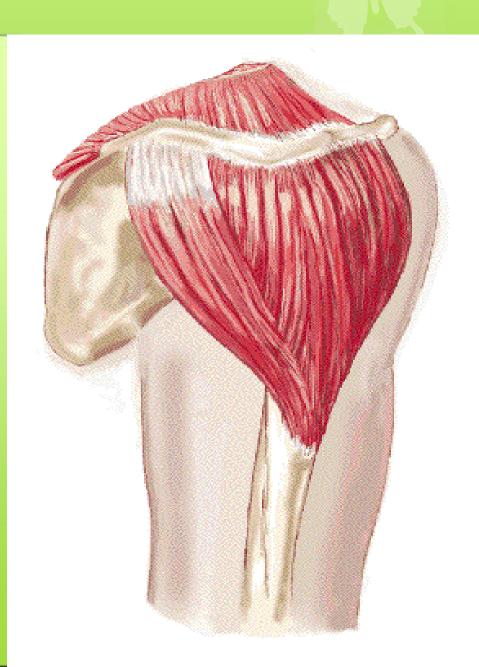


Deltoid

• Muscle for injection.

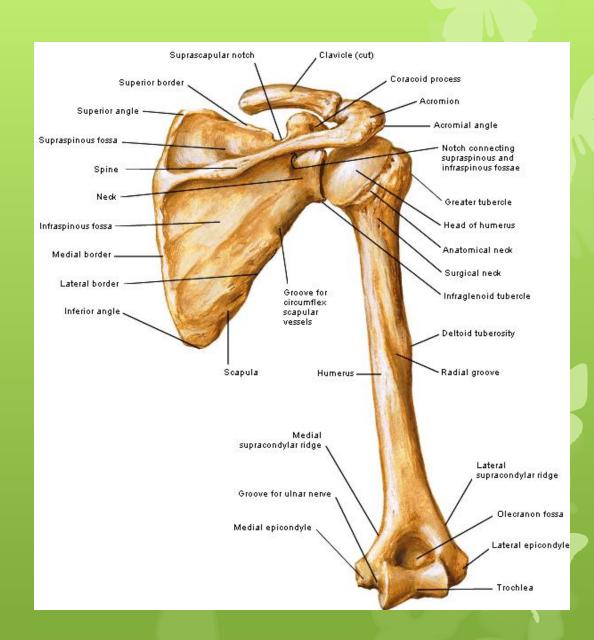
Originates from clavicle, spine and acromian process of scapula.

Nerve supply by axillary nerve.



Scapula

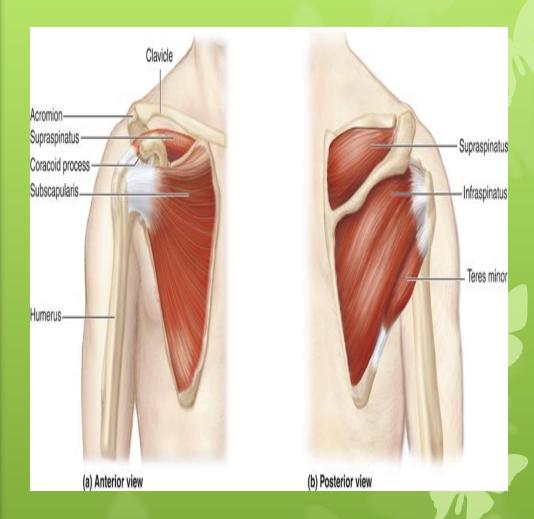
- Bone of shoulder girdle
- Flat bone, triangular in shape and situated posterolateral part of chest wall.
- Presenting parts:
- Surfaces: Costal surface and Dorsal surface
- Borders: superior, medial and lateral
- Angles: superior, inferior and lateral angle.



Scapular muscles

- a. Supraspinatus
- b. Infraspinatus

c. Subscapularis

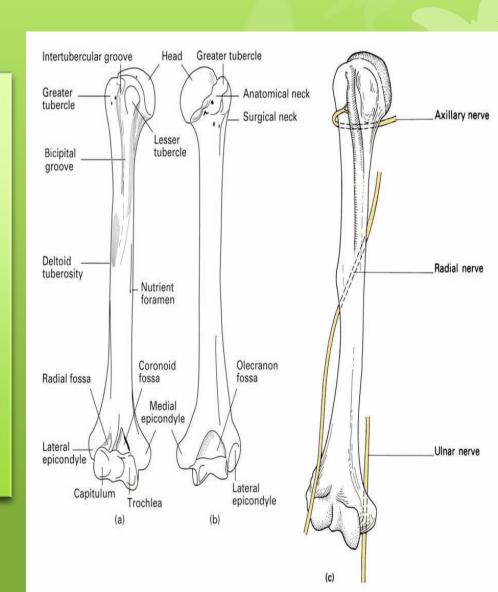


Arm

• Consist of humerus.

• Brachial artery.

- Divided into 2 compartments.
- 1. Anterior
- 2. Posterior



Anterior/flexor compartment

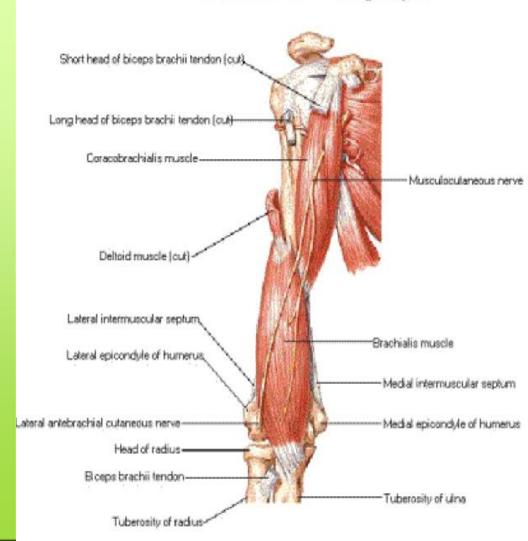
Contents-

- 1. Muscles-
- Biceps brachii
- Coracobrachialis
- Brachialis

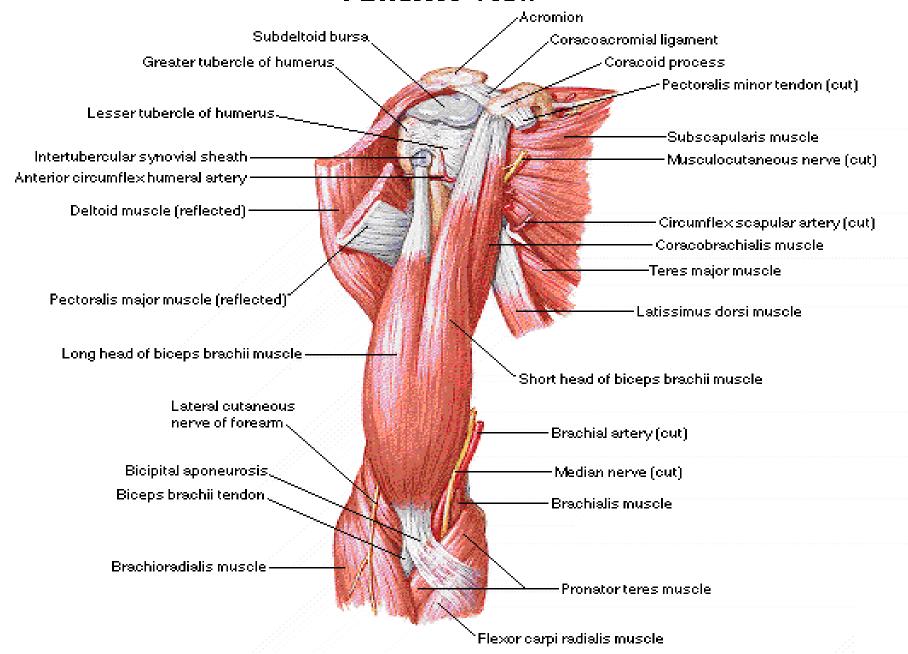
- 2. Brachial artery
- 3. Nerves-
- Median
- Musculo-cutaneous
- Ulnar

Muscles of Arm

Anterior View - Deep Layer



Muscles of The Upper Arm Anterior View

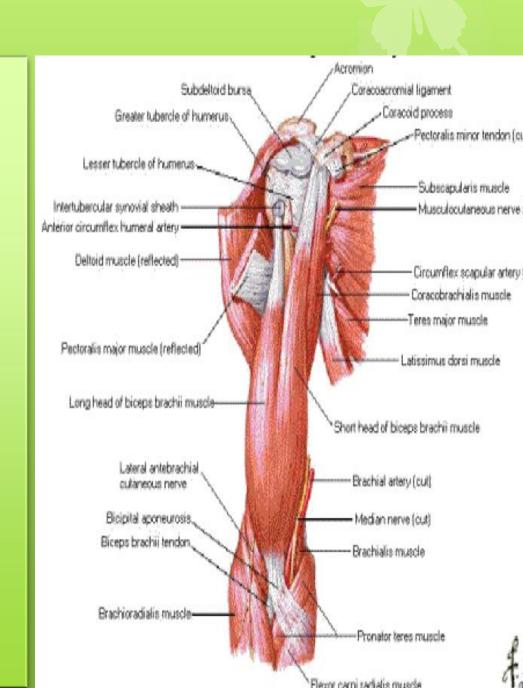


Muscles action

Biceps brachii- flexes elbow.

 Coracobrachialis- flexes shoulder.

 Brachialis-chief flexor of elbow.



Posterior compartment

O Contents

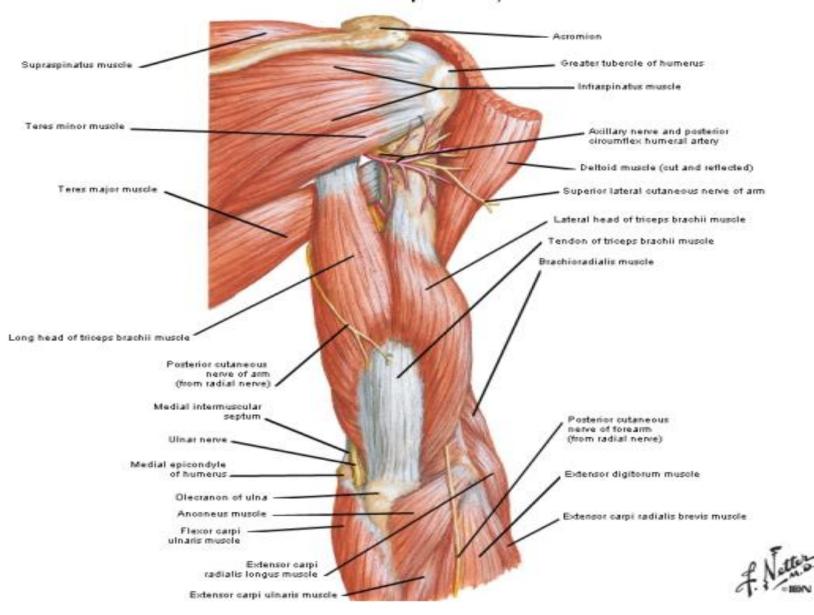
1. Muscles - triceps brachii.

2. Artery- profunda brachii

3. Nerves- radial nerve.



Posterior View - Superficial layer

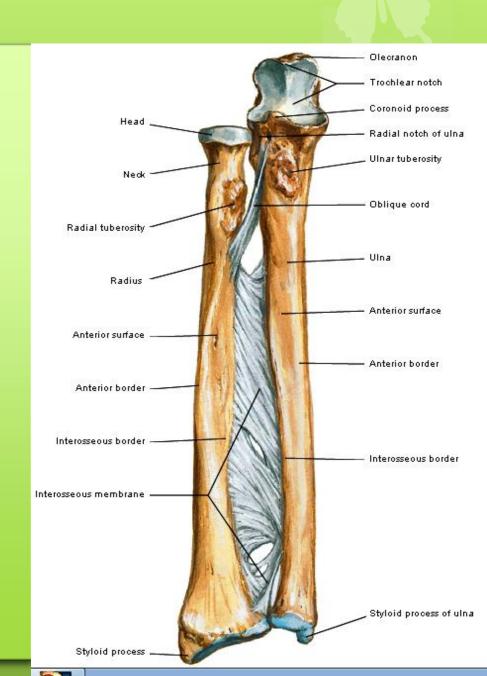


Forearm

Consists of radius and ulna.

Radial and ulnar arteries.

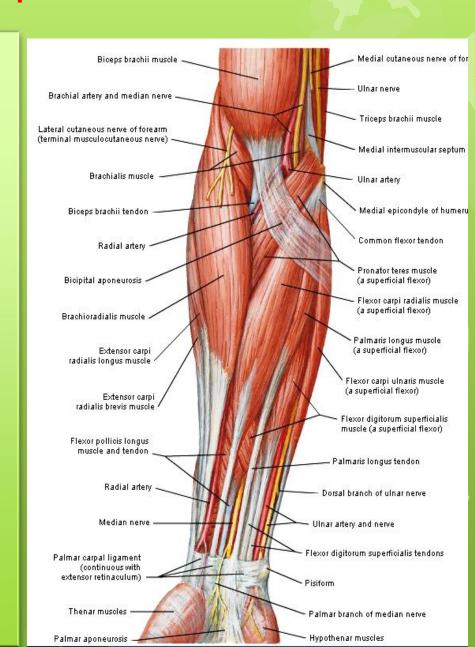
- O Divided into 2 compartments.
- a. Anterior/ flexor.
- **b.** Posterior/ extensor.



Anterior/flexor compartment

Superficial and deep group of muscles.

- Superficial muscles-
- a. Pronator teres
- b. Flexor carpi radialis
- c. Palmaris longus
- d. Flexor digitorum superficialis
- e. Flexor carpi ulnaris.

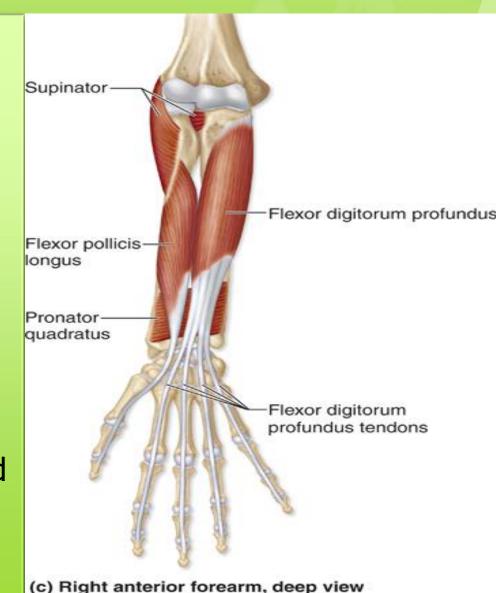


Deep muscles

Flexor policis longus

- Flexor digitorium profundus.
- Pronator quadratus.

 Nerve supply- median and ulnar nerves.



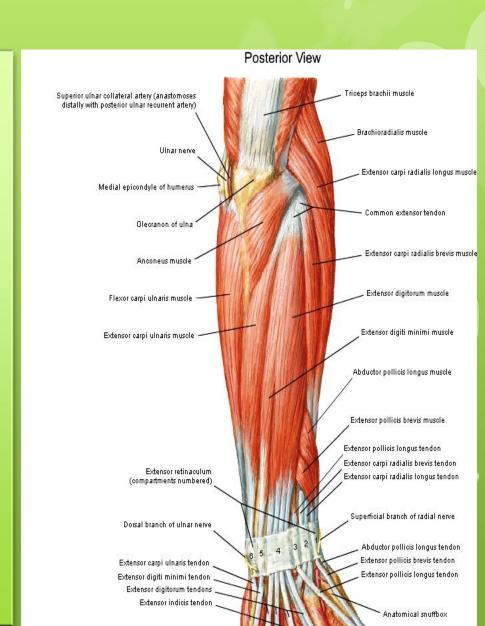
Posterior/extensor compartment

Superficial and deep groups of muscle.

- Superficial muscles-
- 1. Lateral group

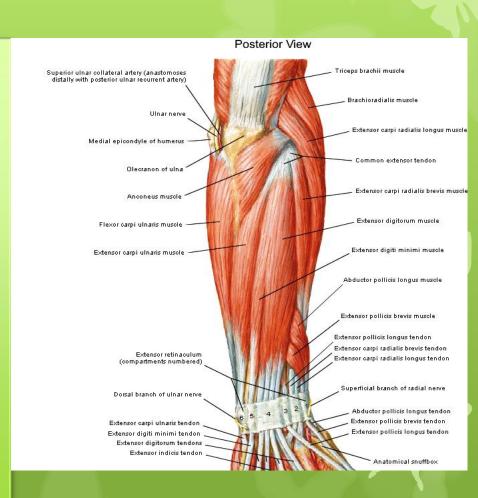
2. Posterior group

Extends and abducts wrist.



Superficial muscles

- 1. Lateral group
- a. Brachioradialis
- Extensor carpi radialis longus
- c. Extensor carpi radialis brevis.
- Posterior group
- a. Extensor digitorium
- b. Extensor digiti minimi
- c. Extensor carpi ulnaris
- d. Anconeus



Deep muscles

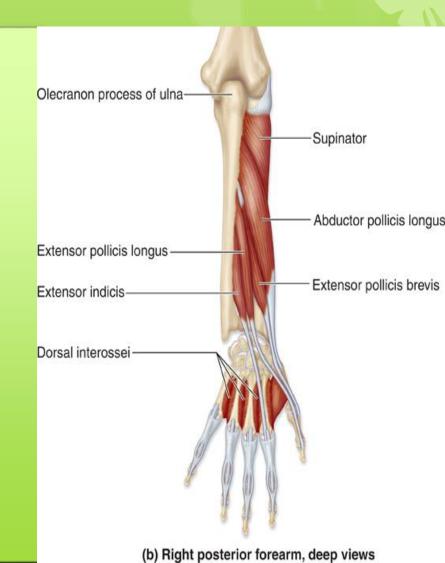
a. Supinator

b. Abductor pollicis longus

c. Extensor pollicis brevis

d. Extensor pollicis longus

e. Extensor indicis

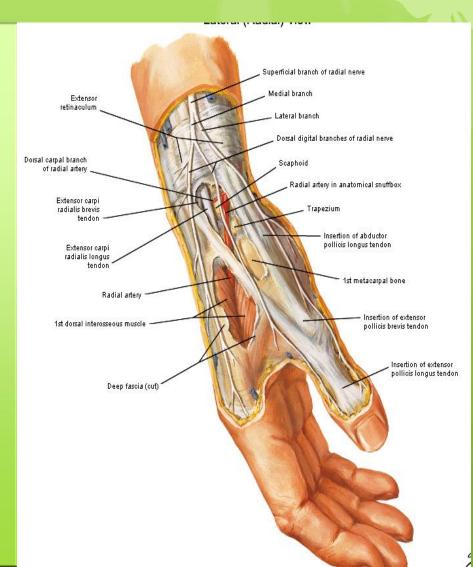


Anatomical snuff box

 Triangular depression on radial side.

 Laterally by tendon of abductor pollicis longus and extensor pollicis brevis.

Medially by extensor pollicis longus.



Contents of anatomical snuff box

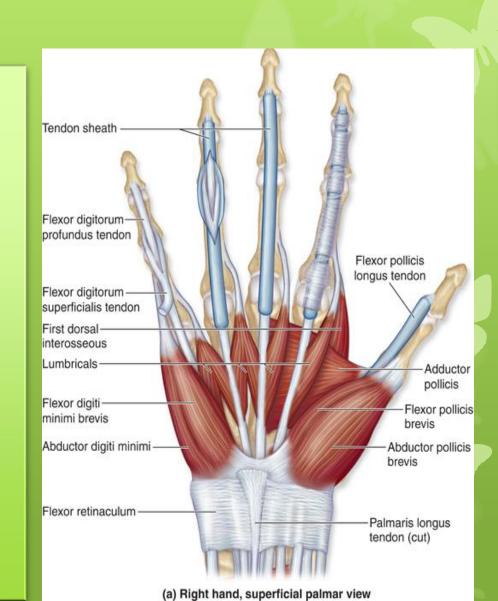
• Contains radial artery.

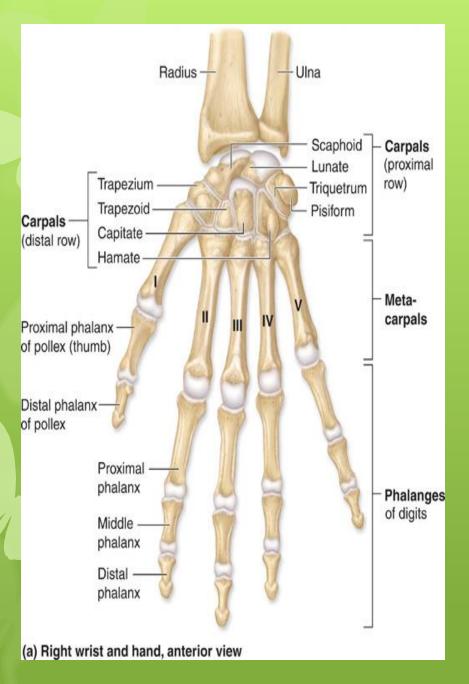
•Roof contains cephalic vein.

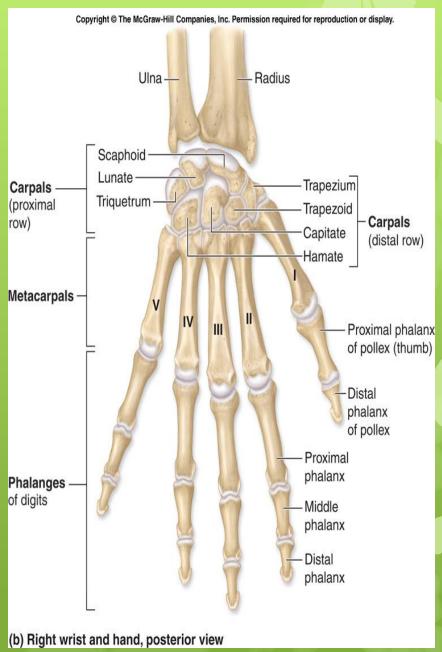
OUsed for intravenous injections.

Hand

- Consists of carpals, metacarpals and phalanges.
- Skin is thick n tightly adhered with palmar aponeurosis.



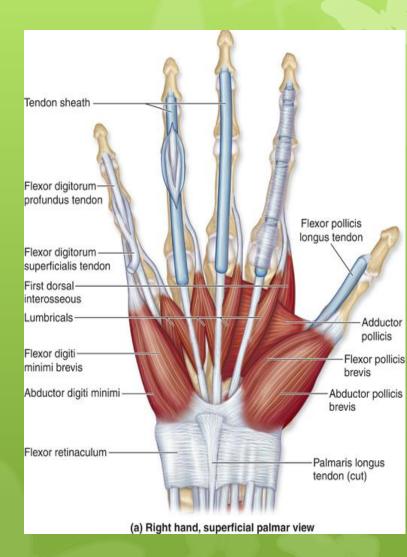


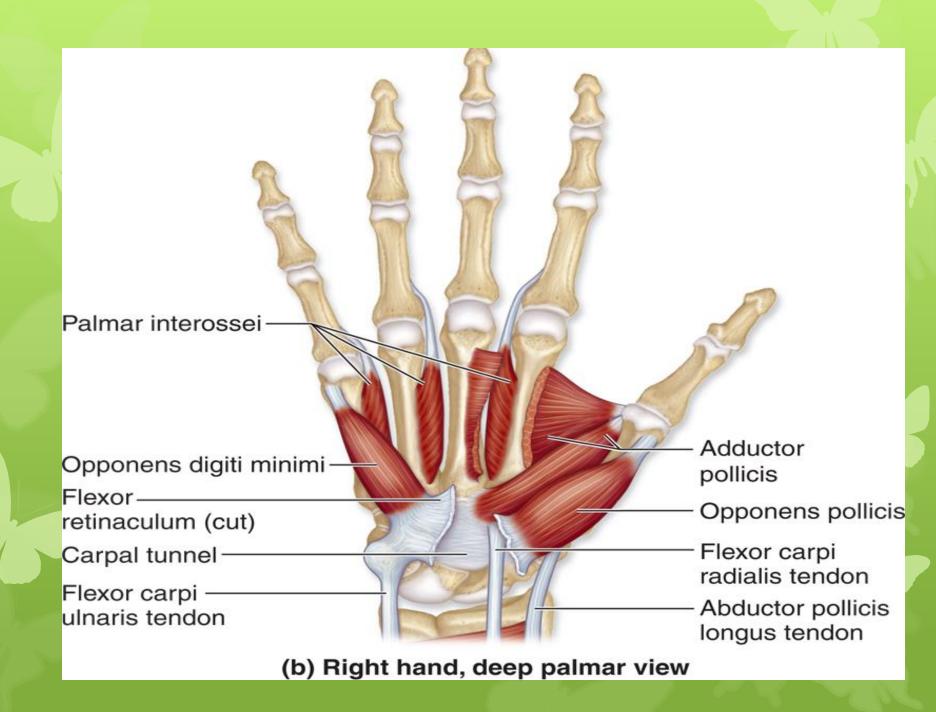


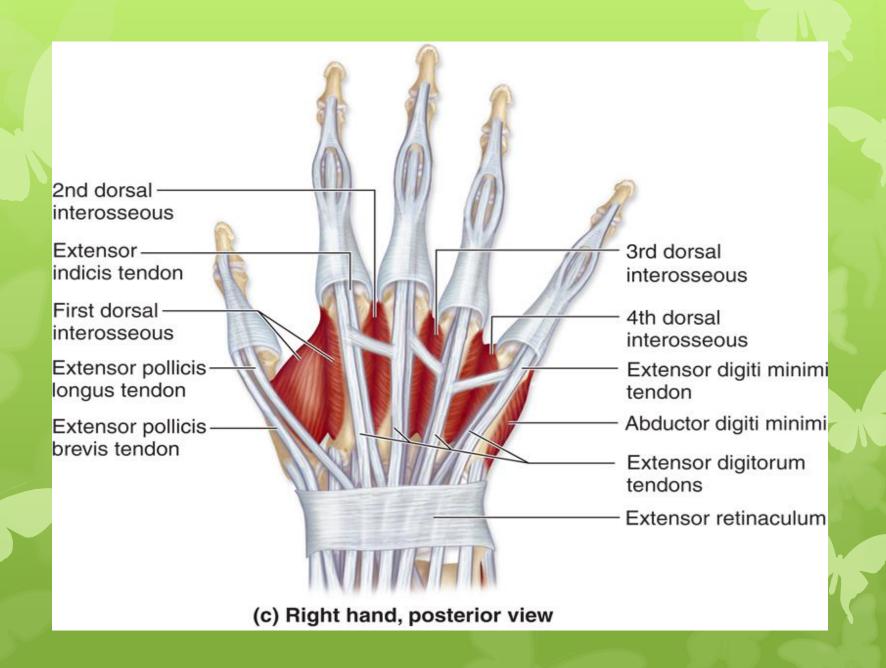
Intrinsic muscles of hand

- 1. Thenar muscles and adductor pollicis.
- 1. Hypothenar muscles and palmaris brevis.
- 2. Lumbrical muscles.

3. Palmar and dorsal interossei.







Blood Vessels of the Upper limb



Arteries

- 1. Axillary artery
- 2. Brachial artery
- 3. Radial artery
- 4. Ulnar artery
- 5. Palmar arches

