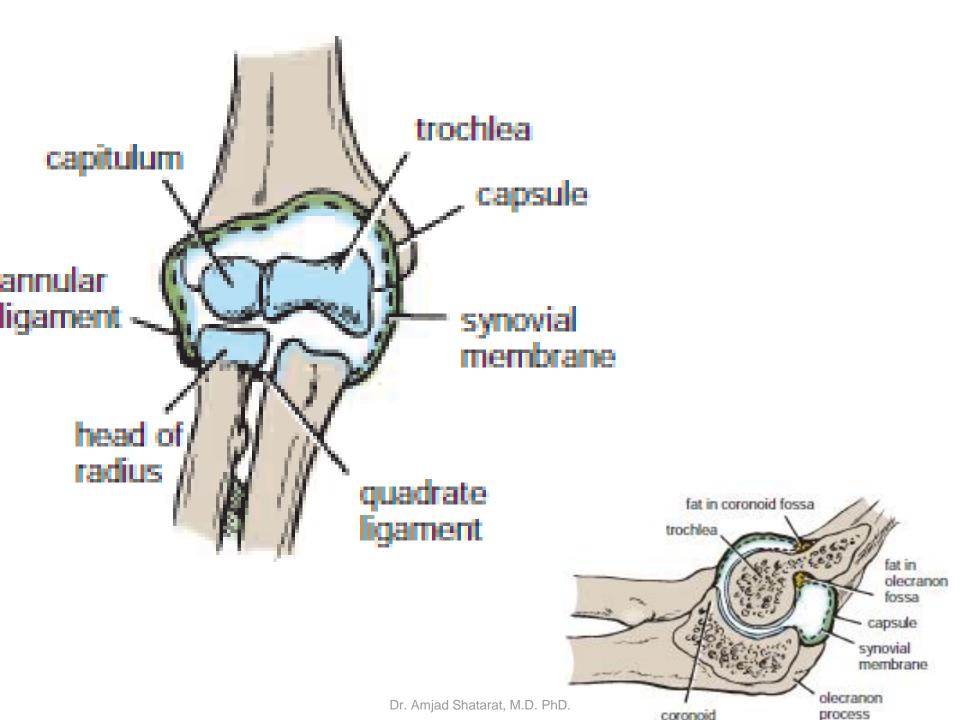
ANATOMY OF THE ARM



FASCIAL COMPARTMENTS OF THE UPPER ARM

Fascial Compartments of the Upper Arm

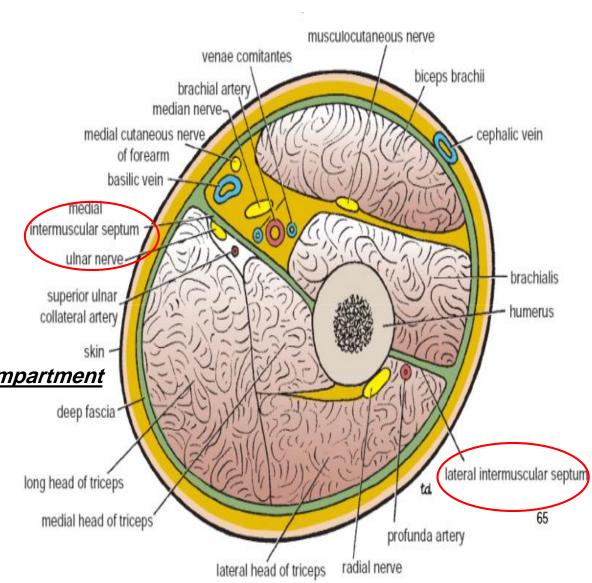
The upper arm is enclosed in a sheath of deep fascia and has two fascial septa:

- 1- Medial fascial septum (medial intermuscular septum)
- 2- Lateral fascial septum (lateral intermuscular septum)



They divided the upper arm into:

anterior and a posterior fascial compartment



Muscles of the Anterior Fascial Compartment of the Upper arm

Muscles:

- 1.Biceps brachii
- 2. Brachialis

BBC group

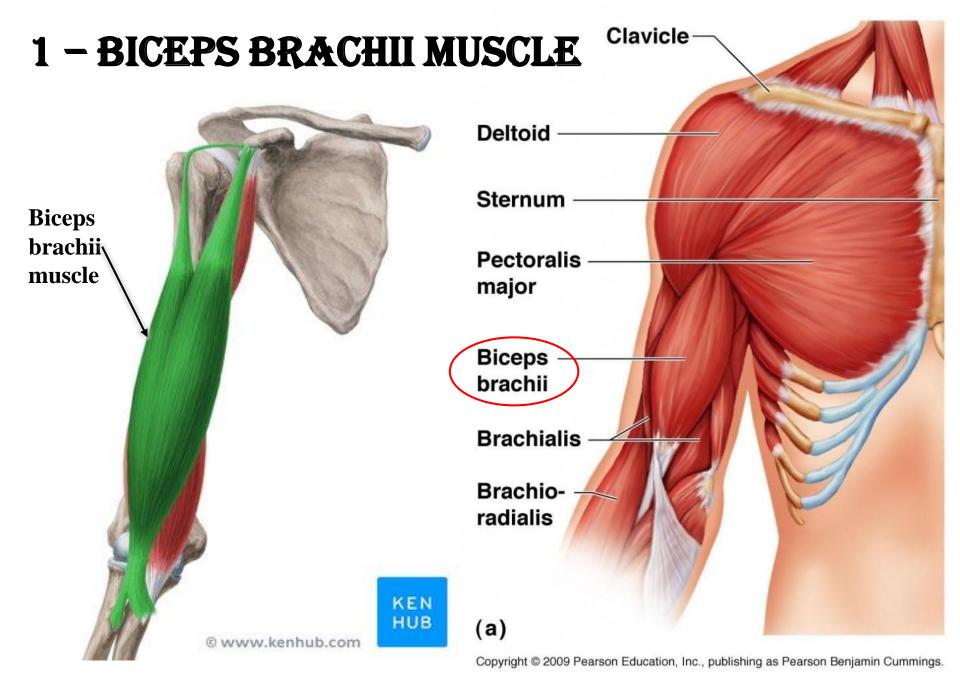
3. Coracobrachialis

Blood supply: Brachial artery

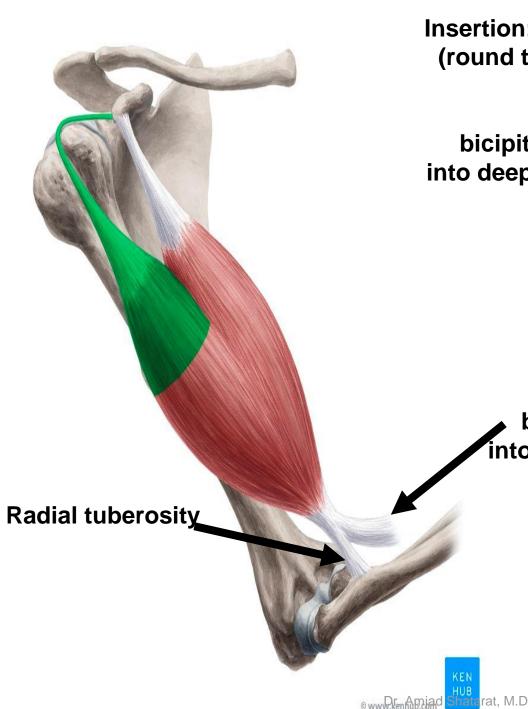
Nerve supply to the muscles: Musculocutaneous nerve

Structures passing through the compartment:

- 1.Musculocutaneous nerve
- 2. Median nerve
- 3. ulnar nerve
- 4. Brachial artery
- 5. basilic vein
- 6. The radial nerve is present in the lower part of the compartment.



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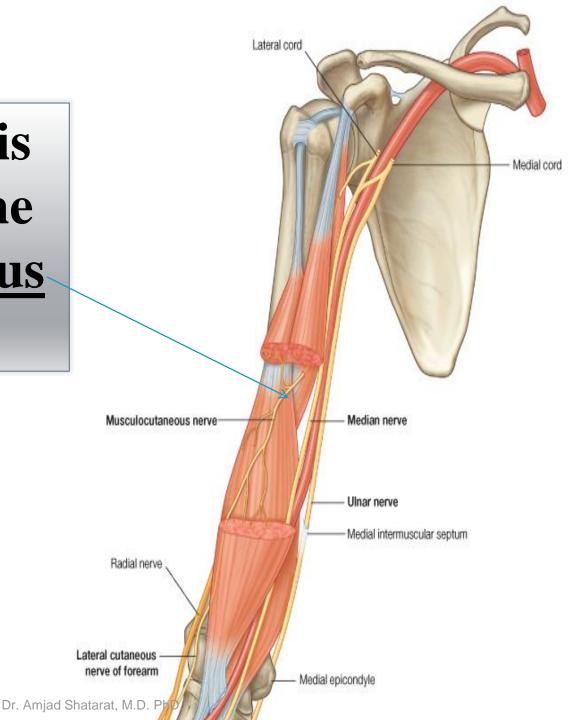


Insertion: Radial tuberosity (round tendon), the main insertion and bicipital aponeurosis into deep fascia of forearm

bicipital aponeurosis into deep fascia of forearm

Action: Supinator of
Forearm (at the superior and
inferior radioulnar joints)
and strong flexor of elbow joint;
rat, M.D. PhD. weak flexor of shoulder joint

The BBC group is innervated by the Musculocutaneous nerve



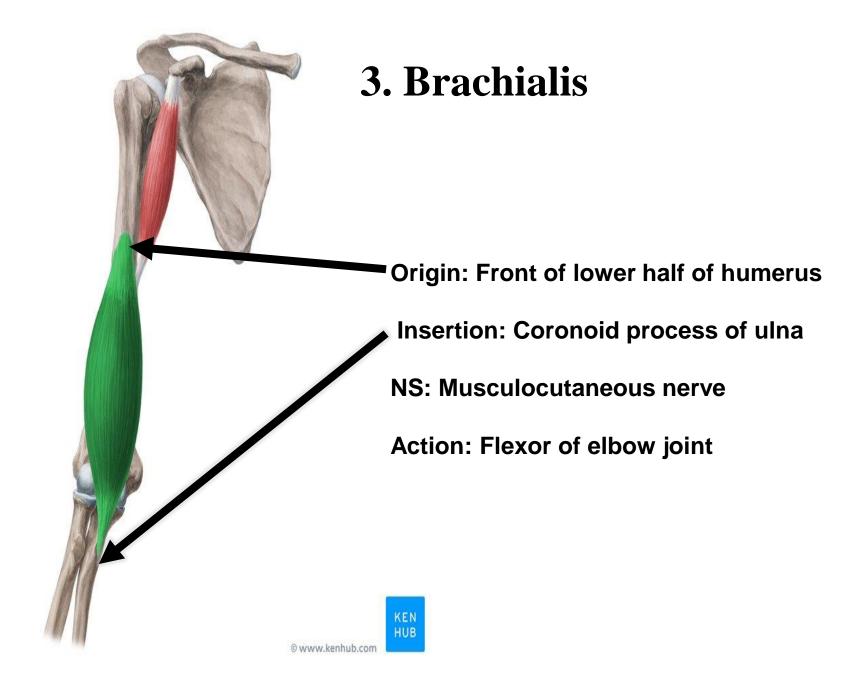
2-CORACOBRACHIALIS:

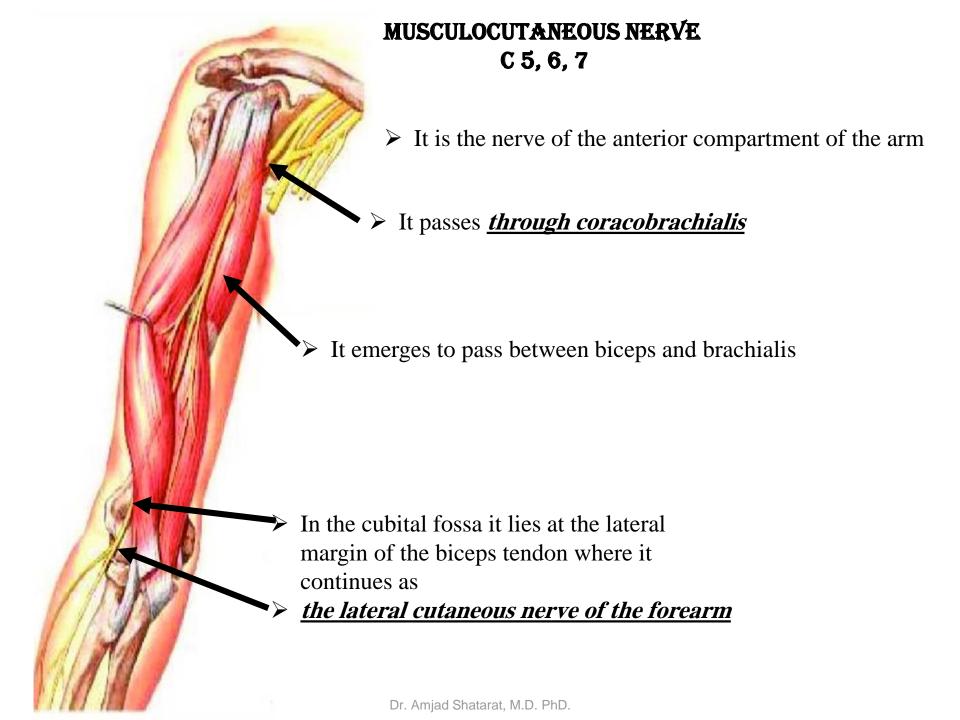
Origin: Coracoid process of scapula

Insertion: Medial aspect of shaft of humerus

NS: Musculocutaneous nerve

Action: Flexes arm and also weak adductor





Contents of the Posterior Fascial Compartment of the upper arm

Muscles: The three heads of the triceps

muscle:

Long head Lateral head Medial head

Blood supply:

- 1.Profunda brachii
- 2. Ulnar collateral arteries

Nerve supply to the muscles: Radial nerve

Structures passing through the compartment:

- 1. Radial nerve
- 2. ulnar nerve

Muscle of the Posterior Fascial Compartment of the Upper arm

1. TRICEPS BRACHII:

A. Origin of long head:

Infraglenoid tubercle of scapula

B. Origin of lateral head: Upper half of posterior surface of shaft of humerus

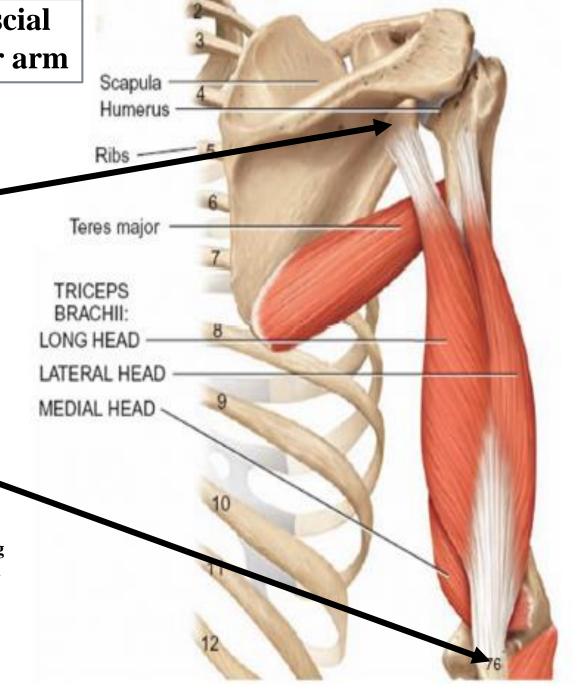
C. Origin of medial head: Lower half of posterior surface of shaft of humerus

Insertion:

Olecranon process of ulna

NS: Radial nerve

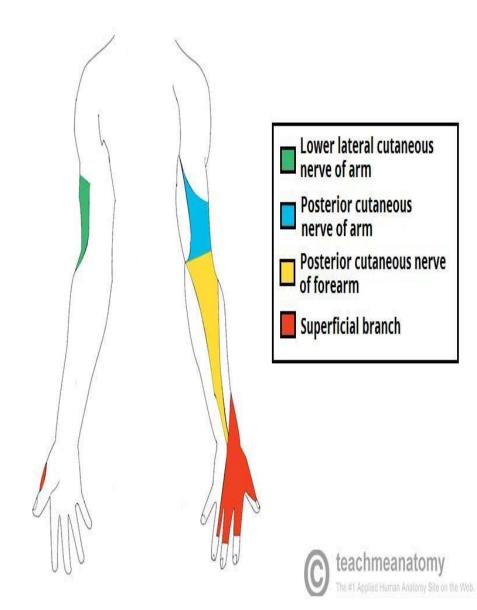
Action: Extensor of elbow joint, and the long head of the triceps acts on the shoulder joint as an adductor of the arm.

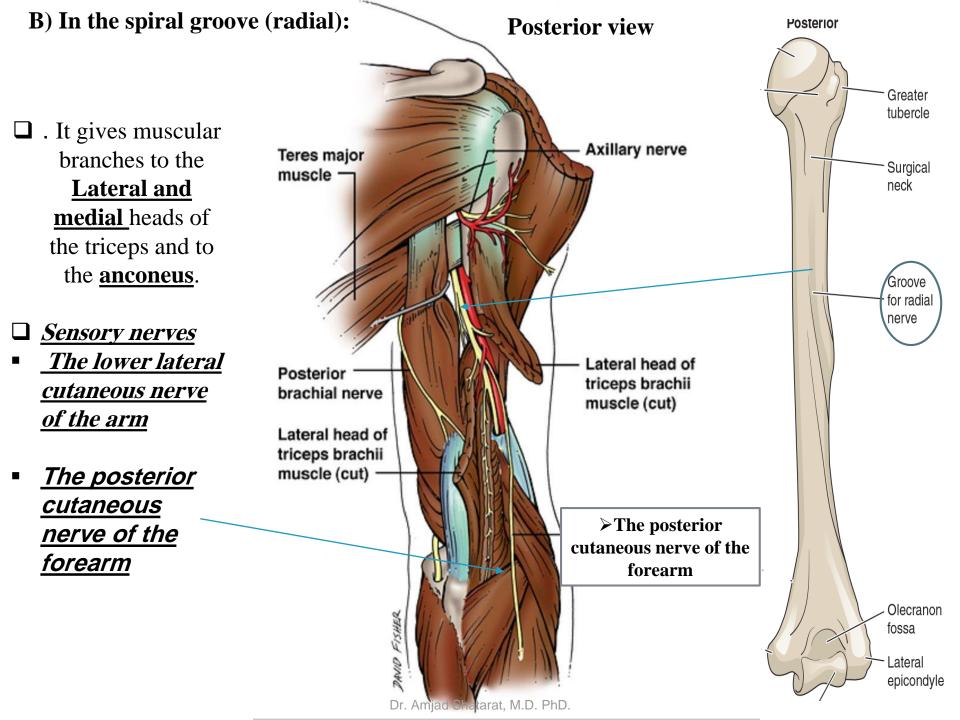


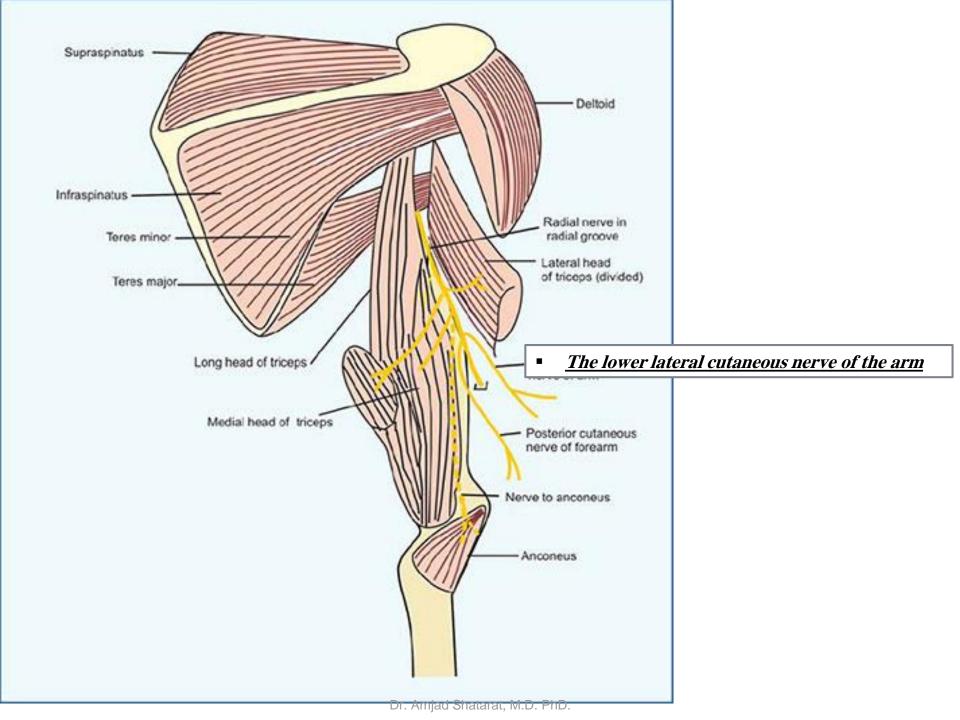
RADIAL NERVE AND IT'S BRANCHES:

A. In the axilla:

- Motor (muscular branches) to Long and medial heads of the triceps
- Sensory (cutaneous) Posterior cutaneous nerve of the arm

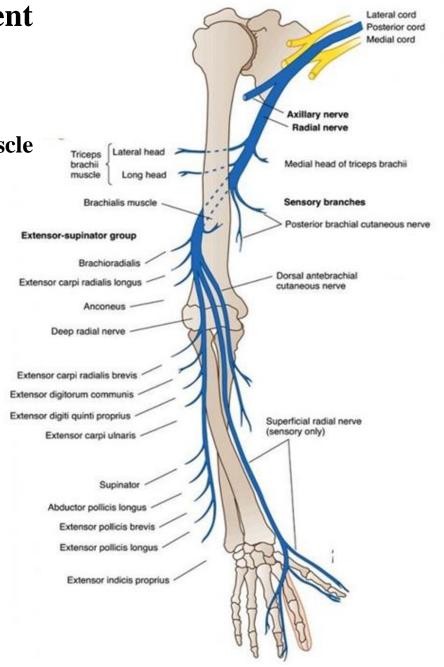






C) In the anterior compartment of the arm:

- **➤** The brachialis muscle
- > the brachioradialis muscle
- **▶** the extensor carpi radialis longus muscle
- ➤ Articular branches to the elbow joint



BRACHIAL ARTERY

Begins:

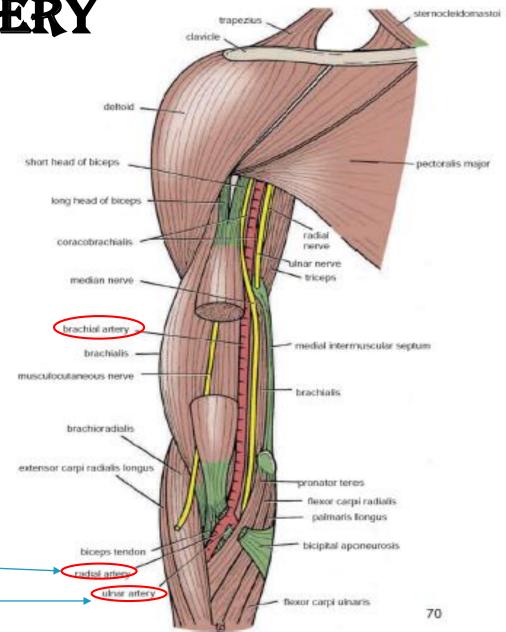
at the *lower border of the teres major muscle*as the continuation of the axillary artery

Terminates:

opposite the neck of the radius by dividing into:

1-The radial artery

2-The ulnar artery



Brachial Artery Branches

Muscular branches to the anterior compartment of the upper arm

1. The nutrient artery:

to the humerus

2. The profunda artery:

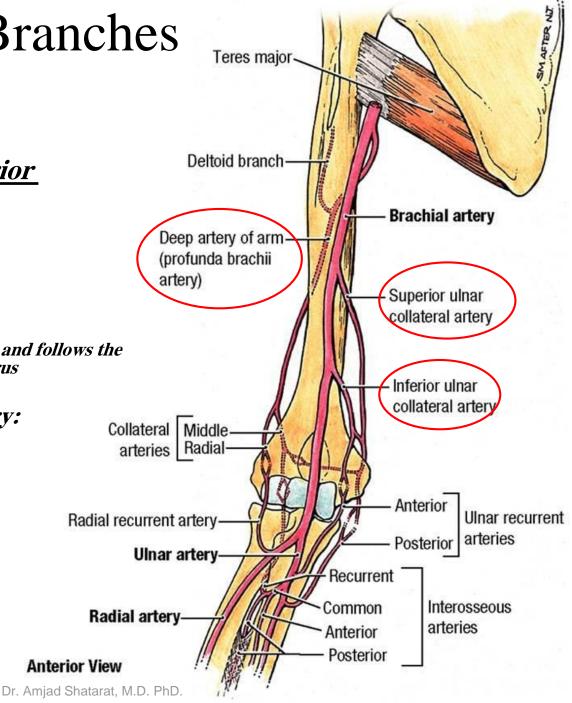
arises near the beginning of the brachial artery and follows the radial nerve into the spiral groove of the humerus

3. The superior ulnar collateral artery:

arises near the middle of the upper arm and follows the ulnar nerve

4. The inferior ulnar collateral artery:

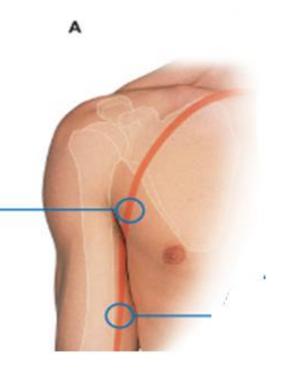
arises near the termination of the artery a



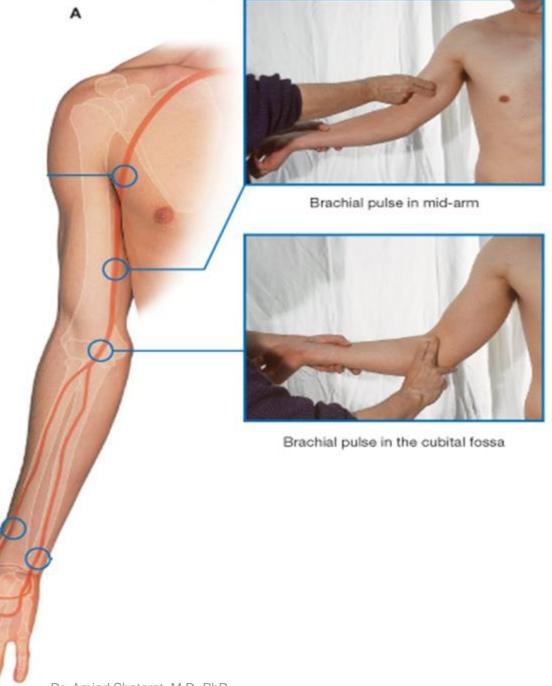


Axillary pulse

❖ Axillary pulse: axillary artery in the axilla lateral to the apex of the dome of skin covering the floor of the axilla



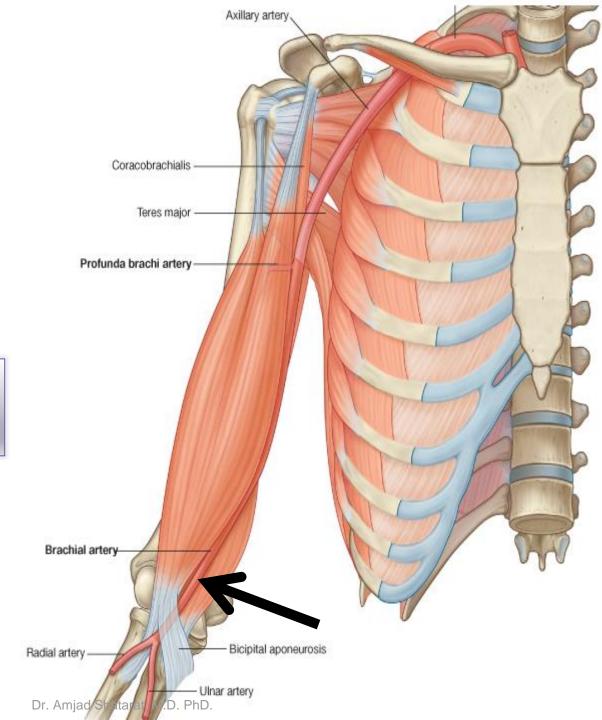
❖ Brachial pulse in midarm: brachial artery on the medial side of the arm in the cleft between the biceps brachii and triceps brachii muscles.
This is the position where a blood pressure cuff is placed



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Brachial pulse in the cubital fossa:
brachial artery medial to the
tendon of the biceps
brachii muscle

Remember that you can feel the Pulse there





Brachial pulse in the cubital fossa: brachial artery medial to the tendon of the biceps brachii muscle. This is the position where a stethoscope is placed to hear the pulse of the vessel when taking a blood pressure reading