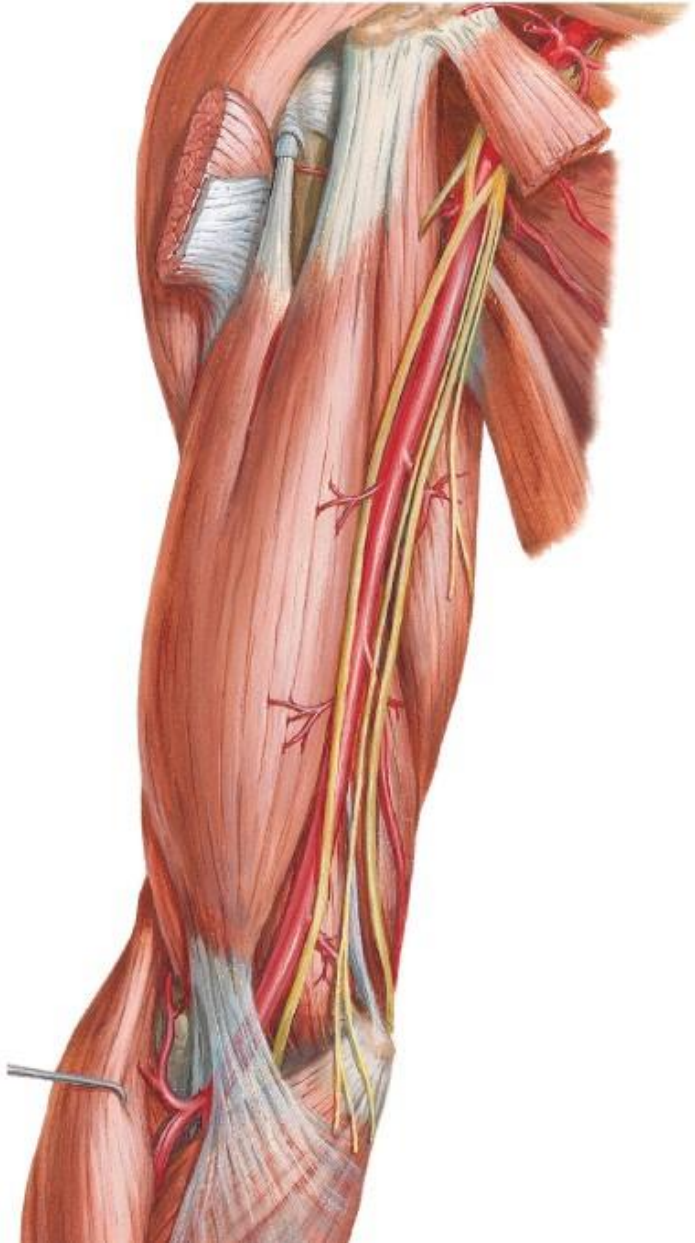
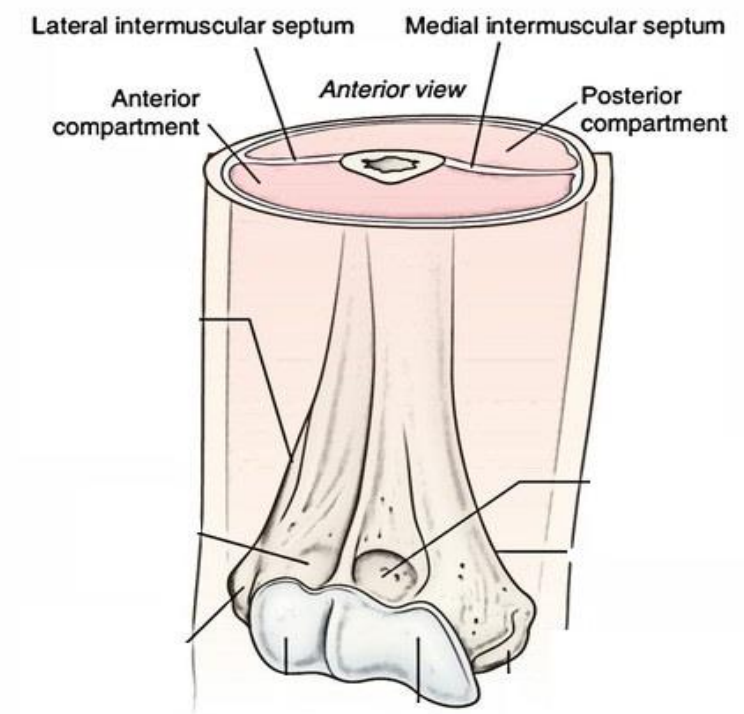
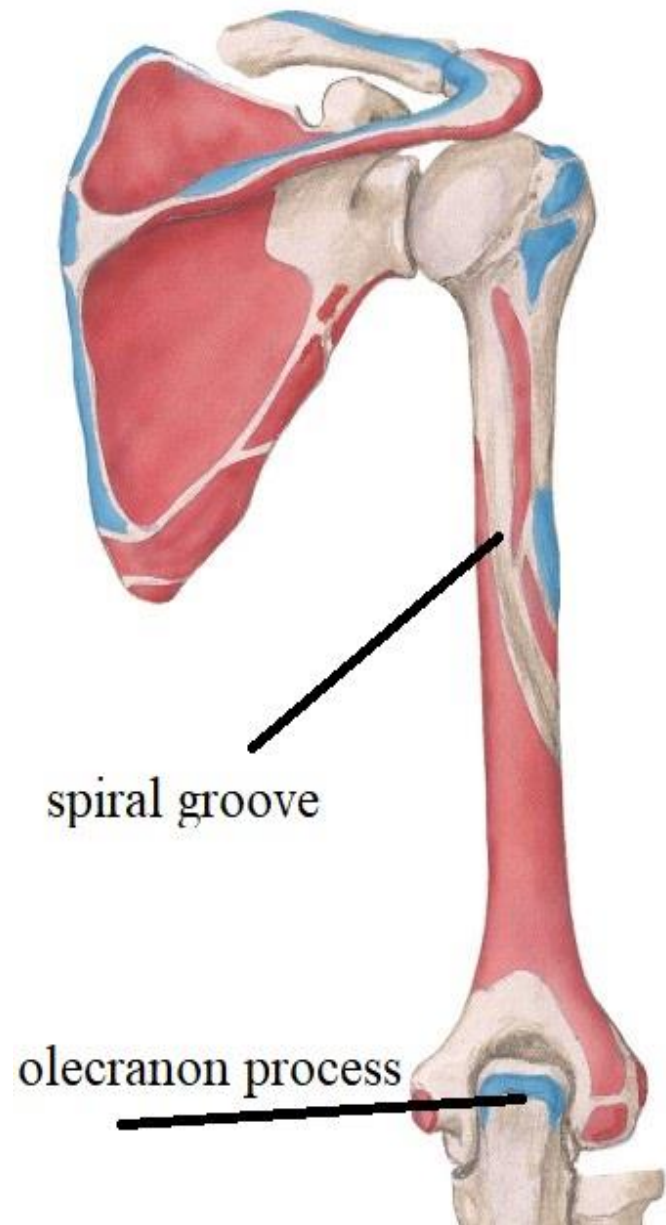
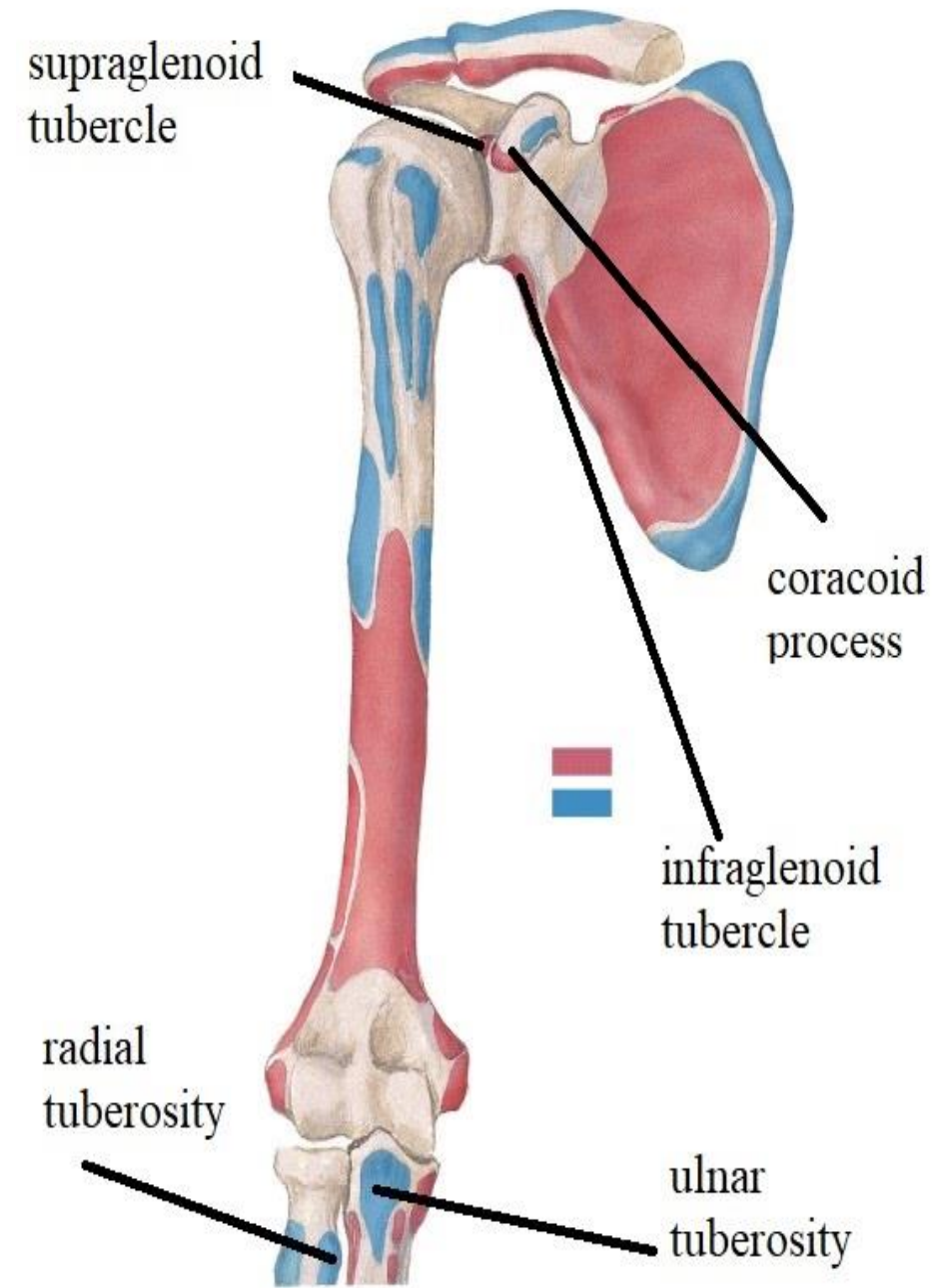


# ARM



BY  
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# MUSCLES OF THE ARM

The arm is divided by humerus & medial and lateral intermuscular septa into

Ant. Compartment: = flexor      Post. Compartment: = extensor

## MUESLES OF THE ANTERIOR COMPARTMENT

### BRACHIALIS

**Origin:-** Lower 1/2 of ant. surface of humerus  
& intermuscular septa

**Insertion:-** ulnar tuberosity

**Action:-** main flexor of elbow joint

**Nerve supply:-** Musculocutaneous n.

radial n. to the lateral part

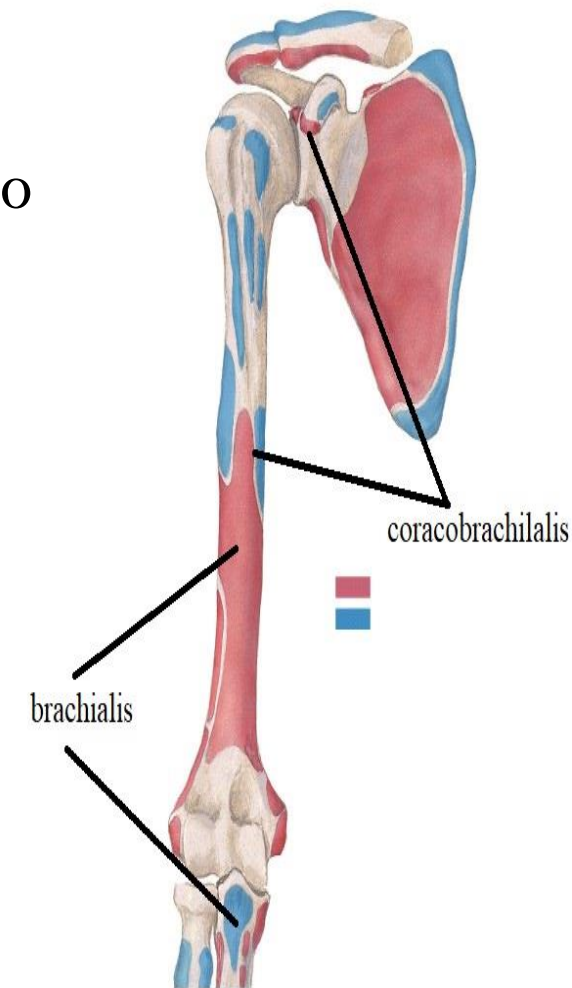
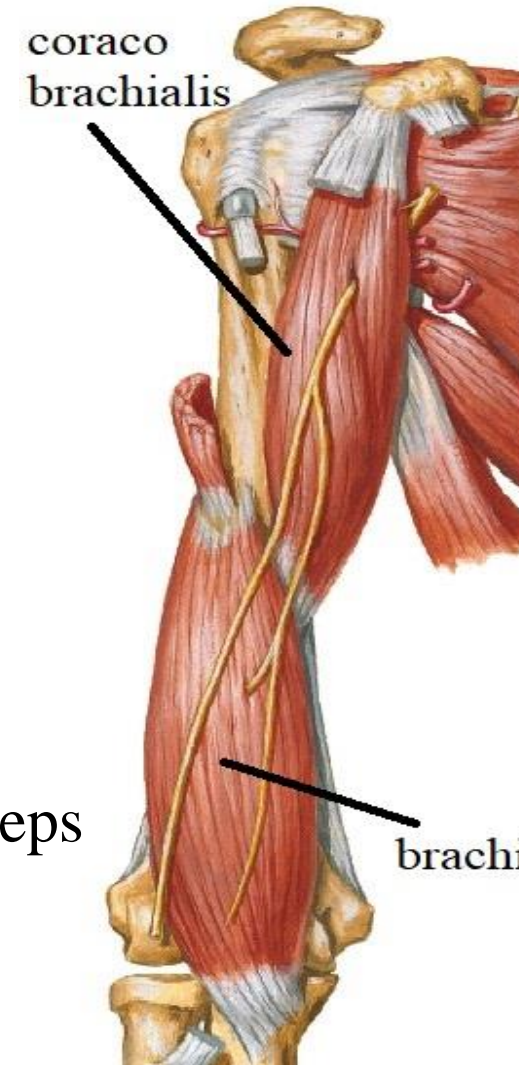
### CORACO-BRACHIALIS

**Origin:-** tip of coracoid process with short head of biceps

**Insertion:-** middle of medial border of humerus

**Action:-** Helps flexion & adduction of shoulder joint.

**Nerve supply:-** musculocutaneous n





# MUSCLES OF THE ARM

## MUESLES OF THE ANTERIOR COMPARTMENT

**Biceps** (in front of brachialis) 2 heads:

**Origin:-**

**short head :-** from tip of coracoid process with coracobrachialis

**Long head: -** by a tendon from supraglenoid tubercle  
pass in the capsule of shoulder joint  
then pass through bicipital groove.

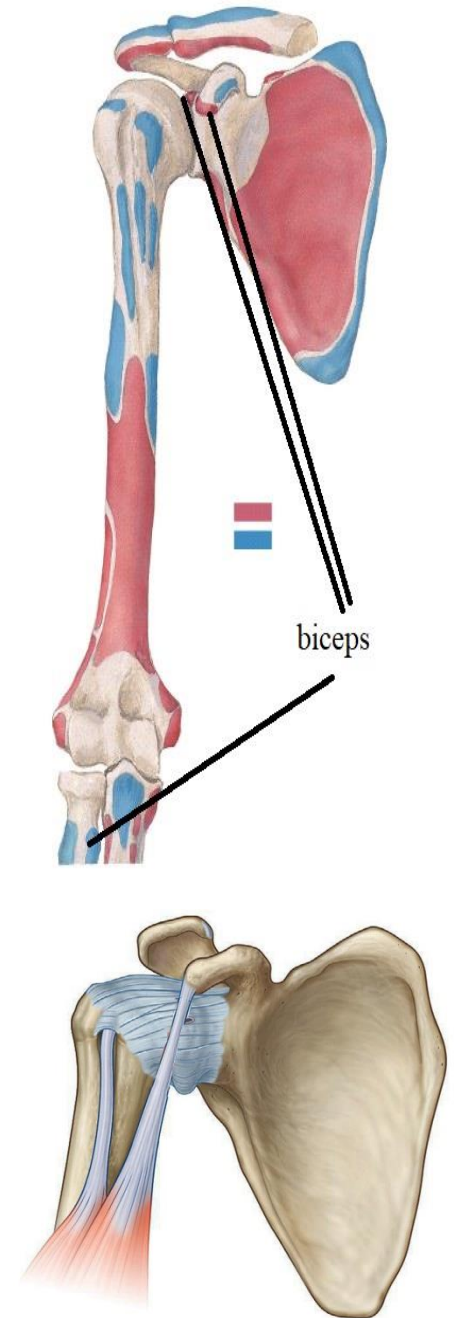
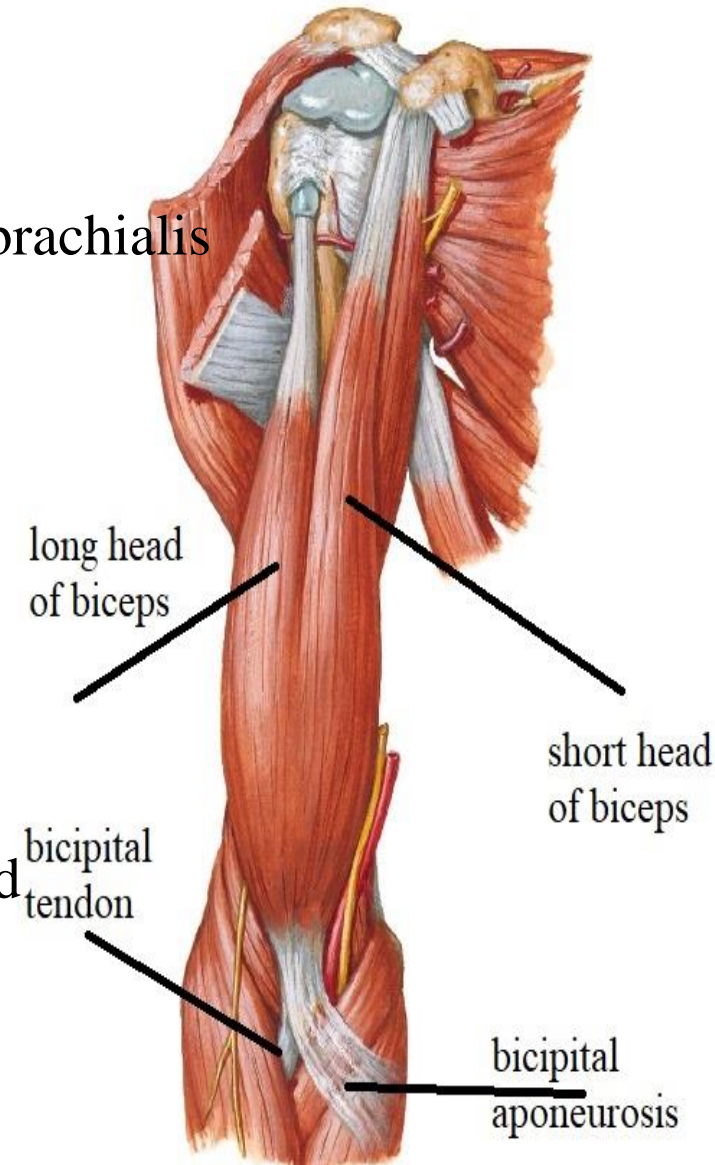
**Insertion:-**

**By tendon :-** radial tuberosity

**By aponeurosis:-** passes downward &  
medially to deep fascia of forearm.

**Action:-** flexion of forearm especially when pronated  
supination of flexed forearm  
flexion of shoulder

**Nerve supply:-** Musculocutaneous n.



# MUSCULOCUTANEOUS NERVE

**Origin:-** from lateral cord of brachial plexus

**Root value:** (C5, 6,7)

**Course & relations:**

Pierce the Coracobrachialis to enter the arm

Pass ( ) biceps & brachialis

appears lateral to tendon of biceps

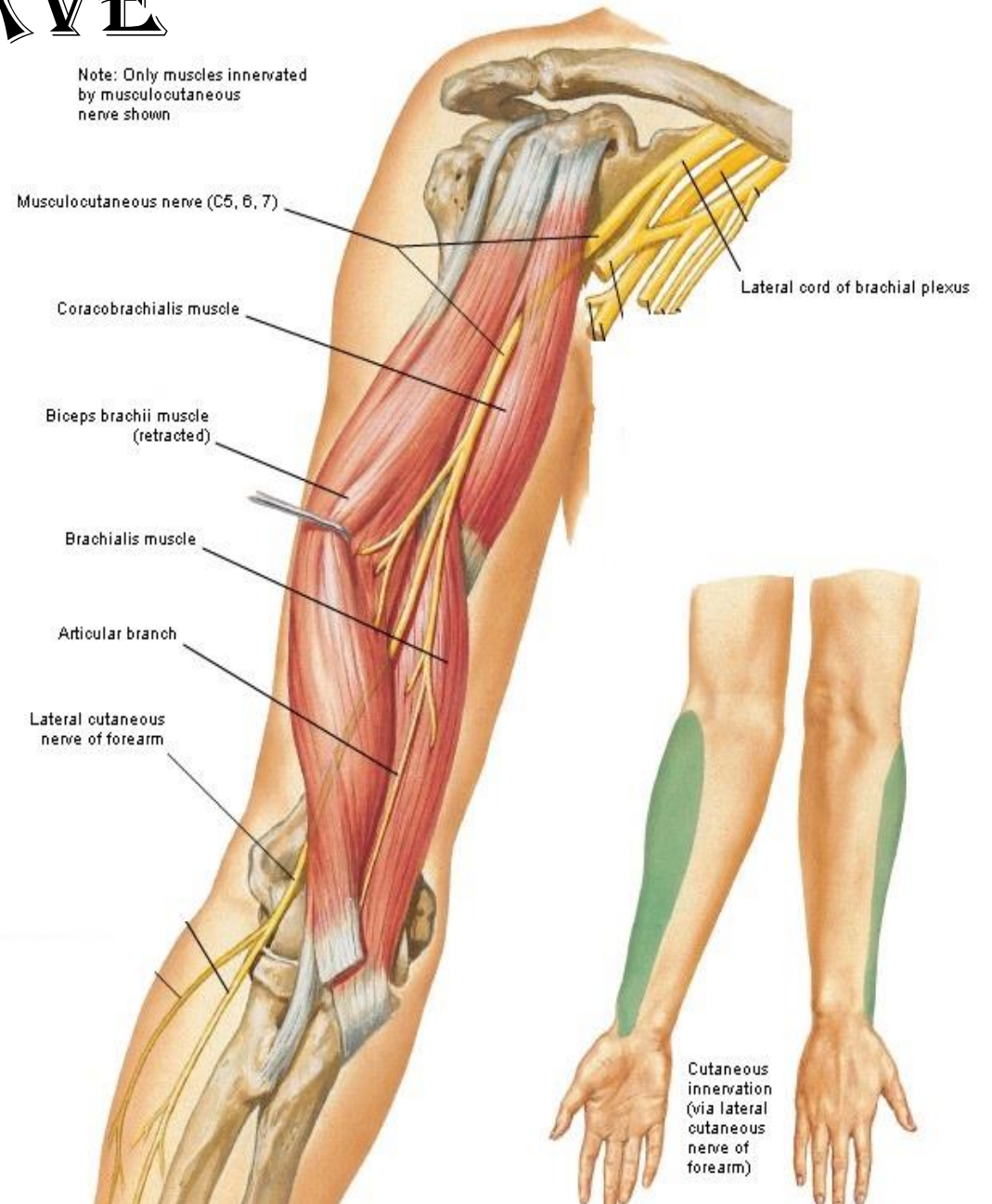
Pierce the deep fascia to Continues as lateral cutaneous n. of forearm.

**Branches:**

**Muscular :-** Coracobrachialis:- before piercing it

Biceps:- branch to each head

Brachialis



# MUSCULOCUTANEOUS NERVE

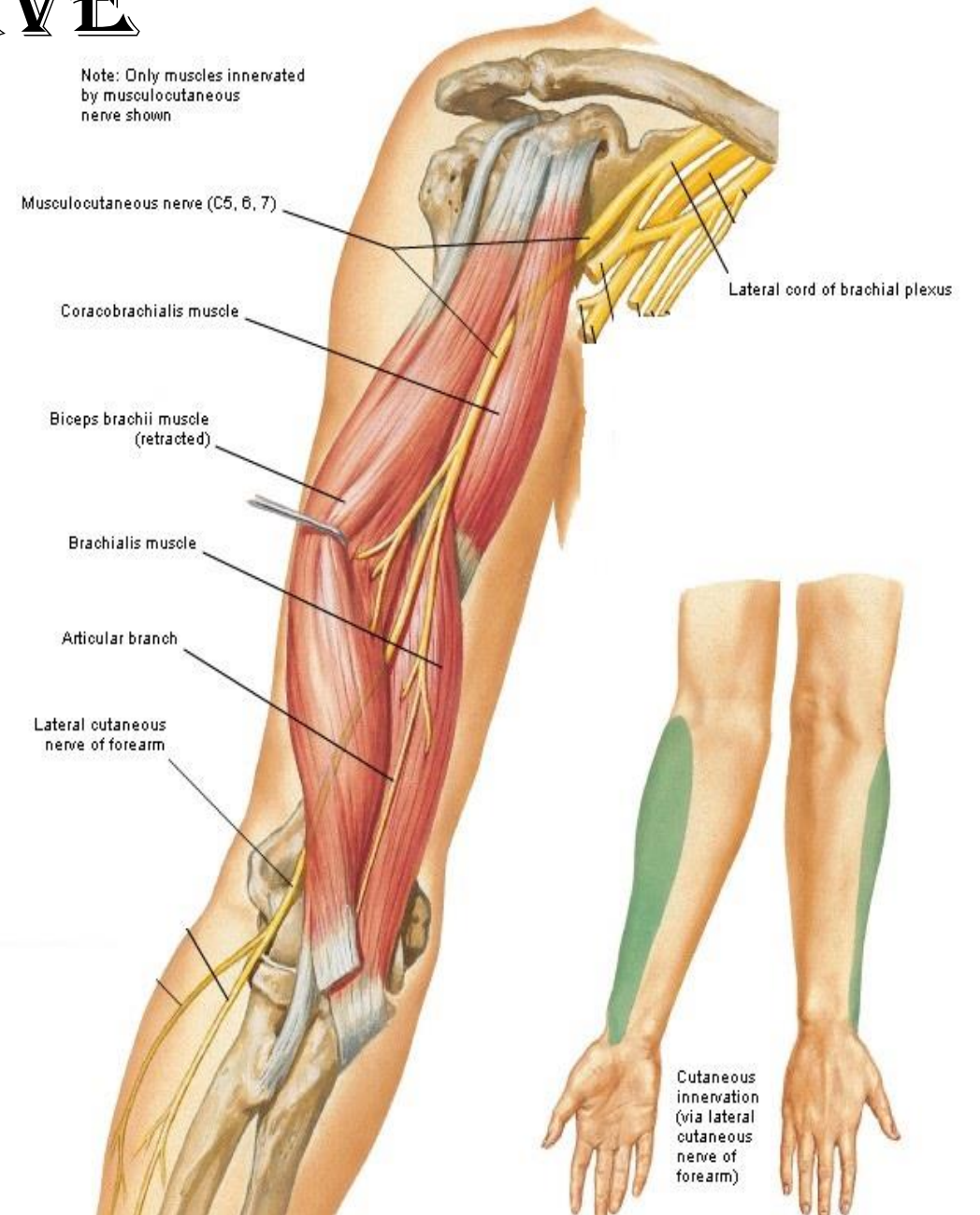
## Branches:

### Articular :-

elbow joint :- through nerve to brachialis  
shoulder joint

### Cutaneous :-

lateral cutaneous n. of forearm  
that supply skin of lateral side of forearm





# MUSCLES OF THE ARM

## MUSCLE OF THE POST. COMPARTMENT

### Triceps

**Origin:-** 3 heads

**Medial head:-** from lower 1/2 of back of humerus below spiral groove.

**Lateral head:-** from oblique line above the spiral groove

**Long head:-** from infra- glenoid tubercle.

**Position of the heads :-**

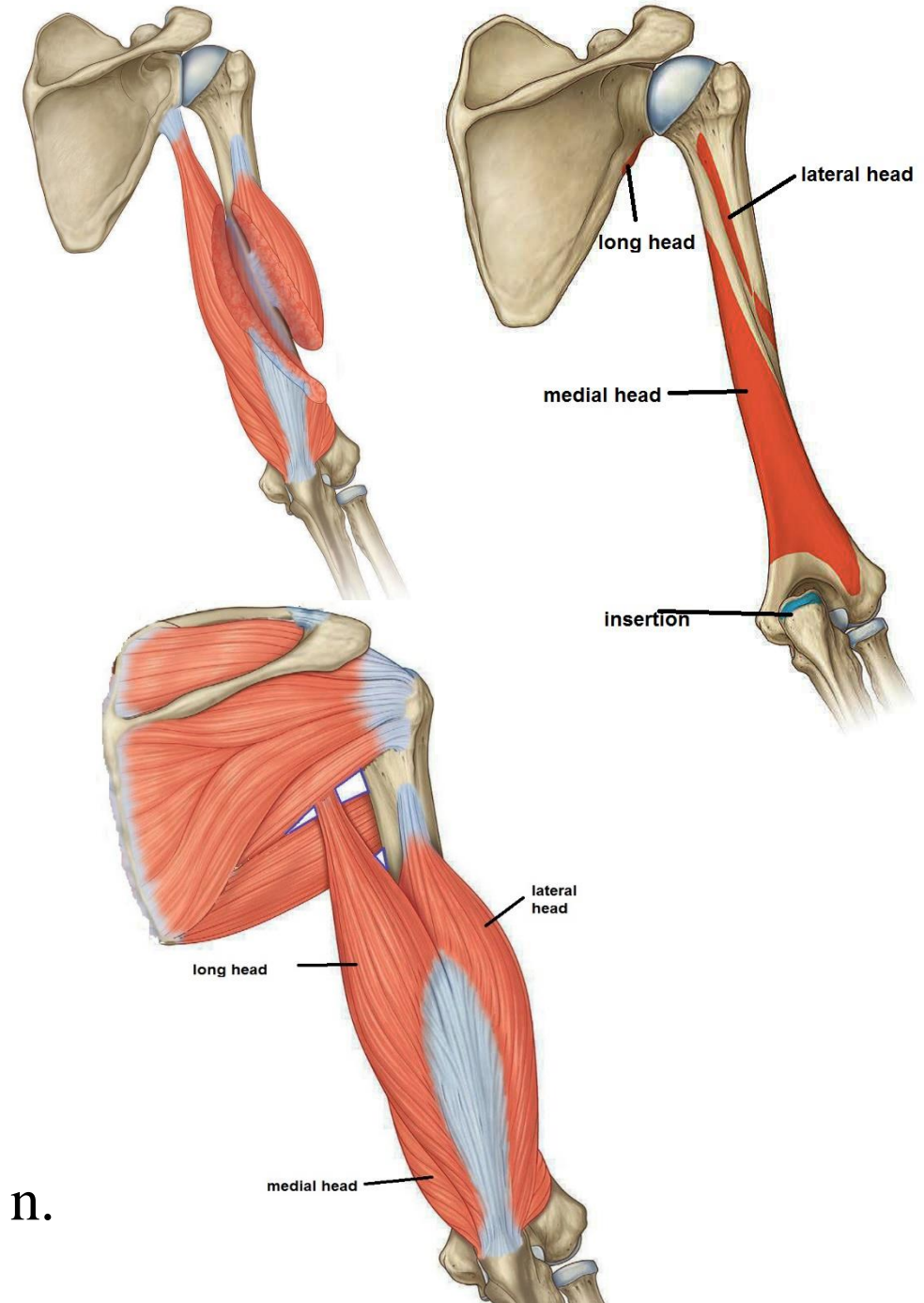
the medial head lies deep

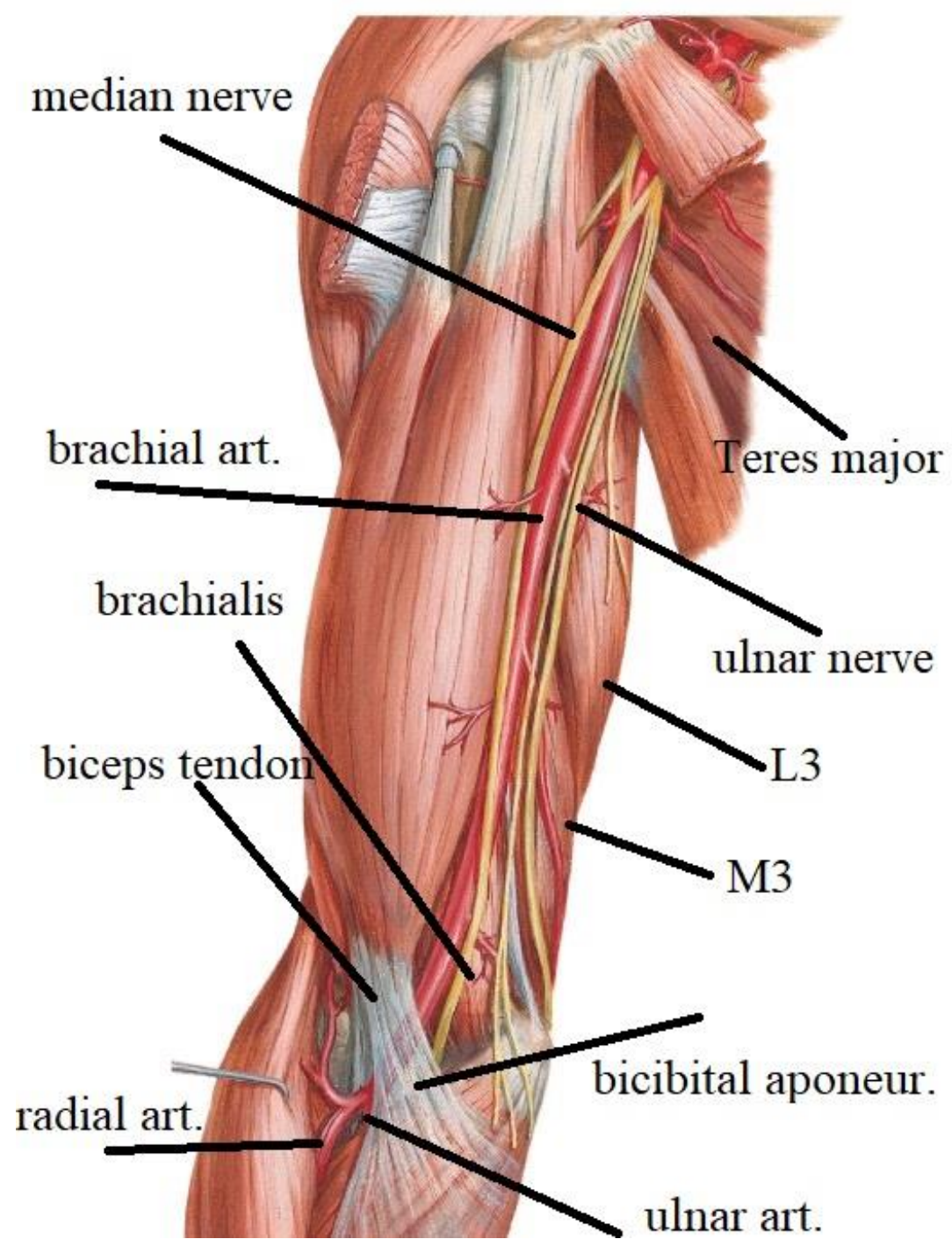
The lateral head is superficial & lateral

the long head is superficial & medial

**Insertion:-** Upper surface of olecranon process

**Action:-** main extensor of elbow      **Nerve supply:-** Radial n.







# THE BRACHIAL ARTERY

**Origin:** at lower border of teres major as continuation of axillary art.

**Course:** -

upper part descends medial to humerus

(So to stop the bleeding press the artery laterally)

While lower part descends ant. to humerus

(So to stop the bleeding press the artery backwards)

**End:** opposite neck of radius by dividing into  
2 branches, radial & ulnar arteries

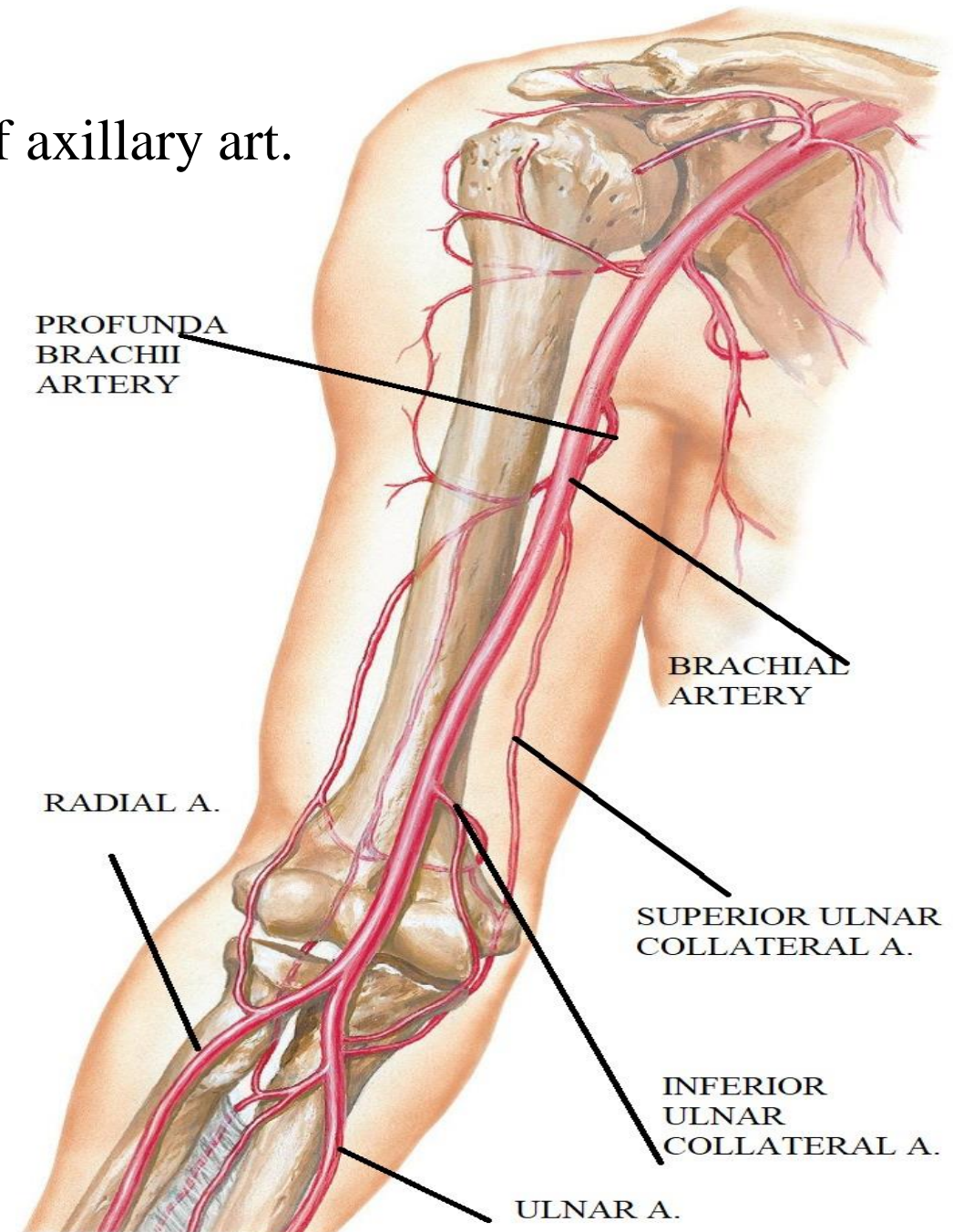
**Relations:**

**Post. relations:**

Long head of triceps

medial // // // .

Brachialis (separating it from humerus)



# THE BRACHIAL ARTERY

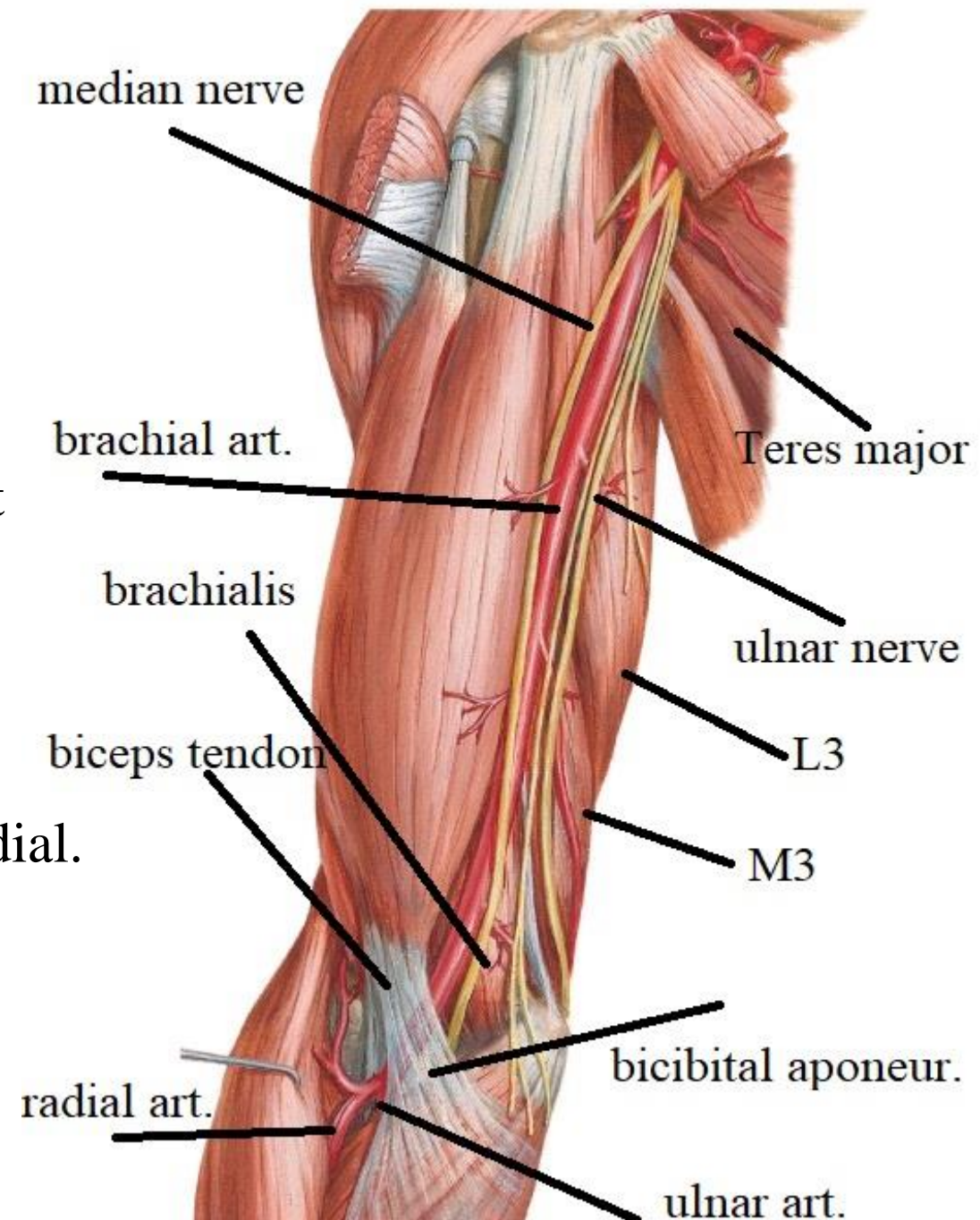
## Relations:

### lateral relations:

- Median n. lateral to upper part then crosses in front to be medial to lower part.
- Biceps tendon is lateral to the artery in the lower part (so palpate its pulsation medial to tendon of biceps).

### ant. relations:

- skin & fascia throughout its course but
- Median n. crosses it at the middle from lateral to medial.
- lower most part is crossed by bicipital Aponeurosis which separate brachial art. & median n. deep to it from median cubital v. superficial to it.





# THE BRACHIAL ARTERY

## Relations:

### medial relation:

ulnar n. is medial to upper part

median n. is medial to lower part.

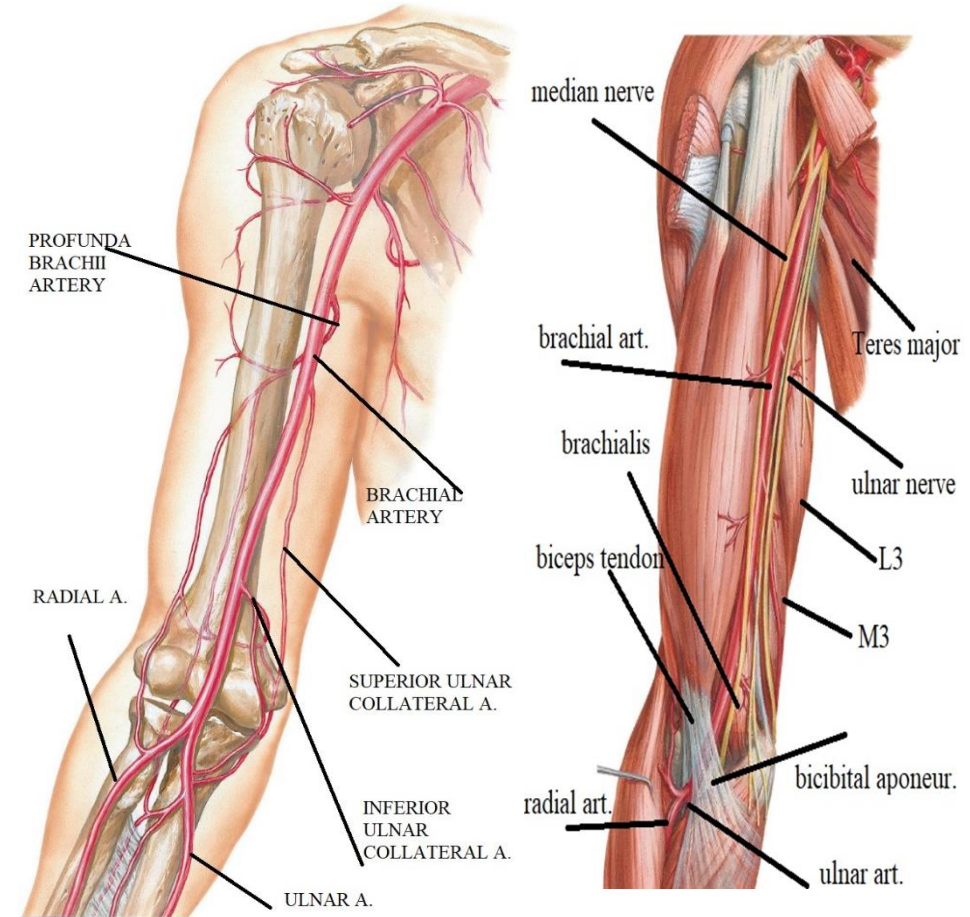
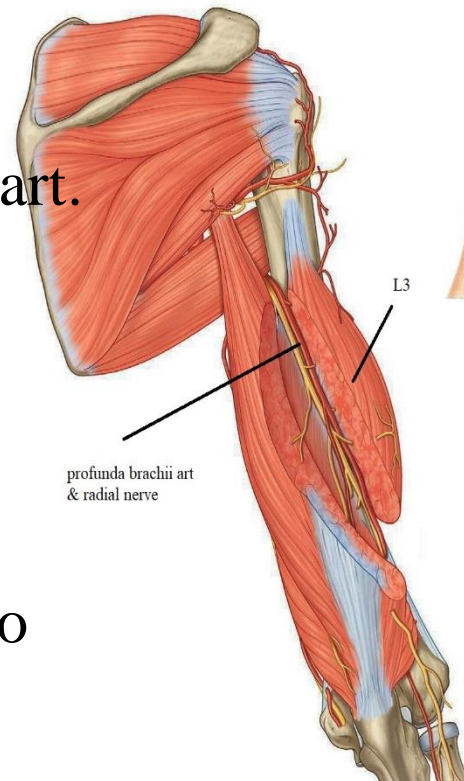
## Branches:

### 1-profunda brachii artery:

**O.:** from posteromedial aspect of brachial art.  
at lower border of teres major

**C & R:** enters the spiral groove on back  
of humerus with radial n .  
covered by lateral head of triceps.

**end :** in the spiral groove by dividing into  
ascending & descending branches.





# THE BRACHIAL ARTERY

## Branches:

2- nutrient: - to humerus

3-superior ulnar collateral.

pass with ulnar n. behind medial epicondyle

4-inferior ulnar collateral.

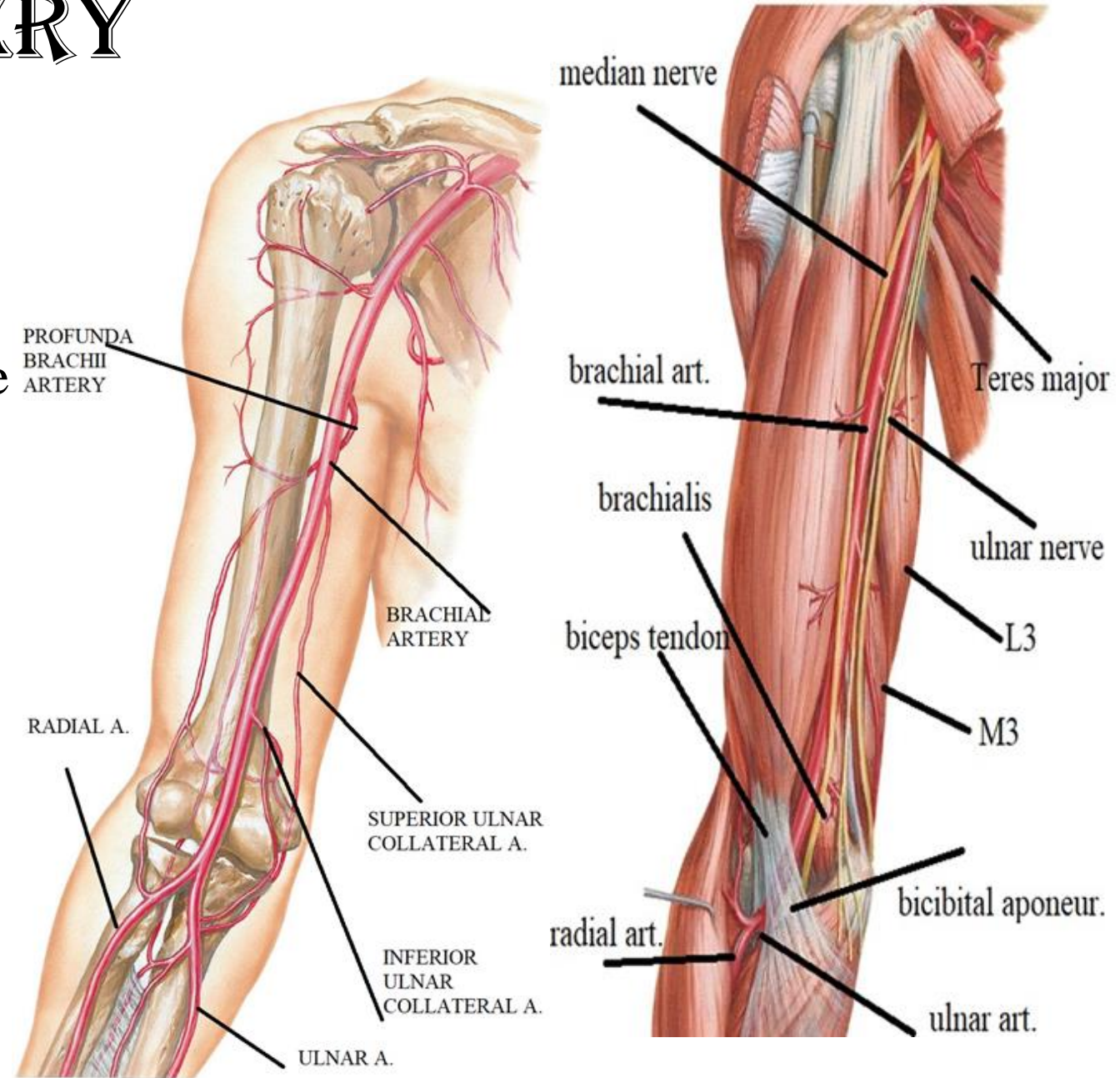
Divide into anterior & posterior branches  
in relation to medial epicondyle

5-muscular branches:-

to muscles of anterior compartment

6-terminal branches:-

Radial & ulnar arteries



THANQ