The University Of Jordan Faculty Of Medicine



## Muscles of The Arm

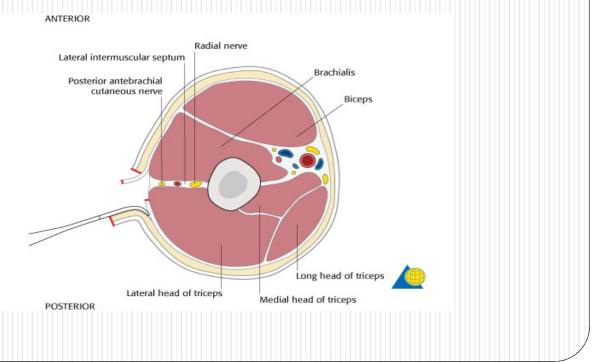
# By Dr.Ahmed Salman

#### **Associate Professor of Anatomy**

## Compartments of the arm

The arm is divided into two compartments by two (medial and lateral) intermuscular septa:

- •Anterior (flexor).
- Posterior (extensor).



## **Muscles of The Arm**

#### Front

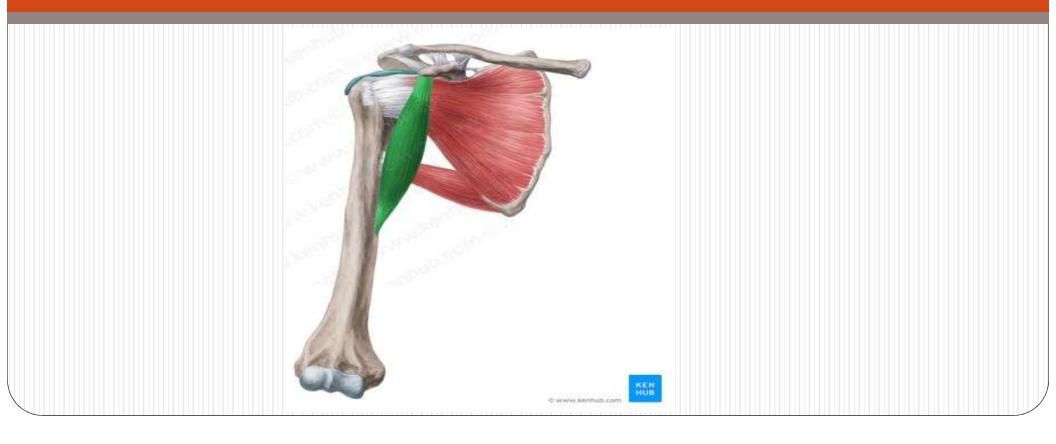
- 1-Corachobrachialis
- 2- Biceps Brachii
- 3- Brachialis

All are supplied by Musculocutaneous nerve and they are flexors

### Back

1- Triceps is supplied by radial nerve and it is extensor

## Coracobrachialis



### Origin

Coracoid process of scapula

### Insertion

Middle of the medial border of the humerus

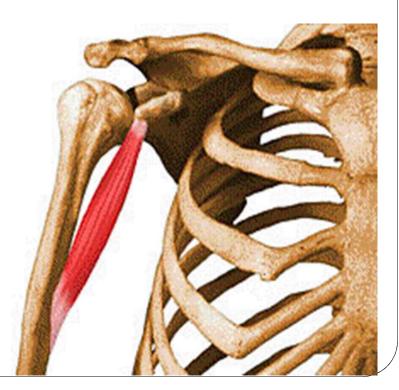
Nerve supply:

Musculocutaneous nerve .

### Action:

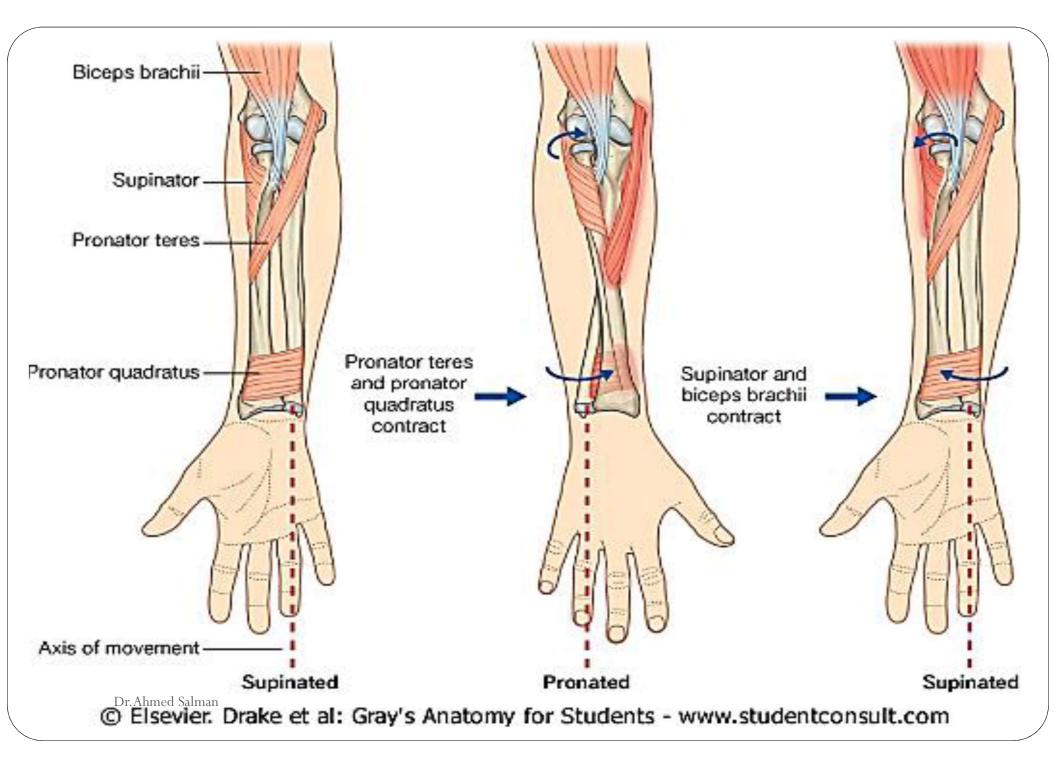
Flexion of the arm.





## **Biceps brachii**





## Origin

has 2 heads

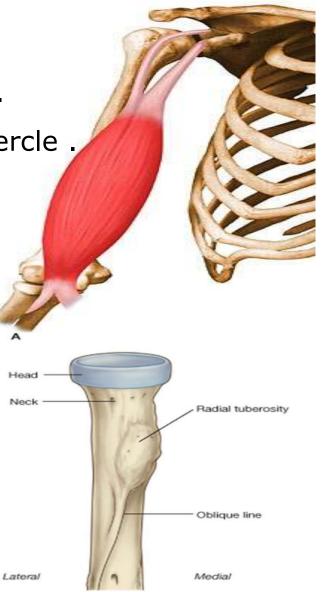
1-Short (medial) head: coracoid process.

2-Long (Lateral) head: supraglenoid tubercle

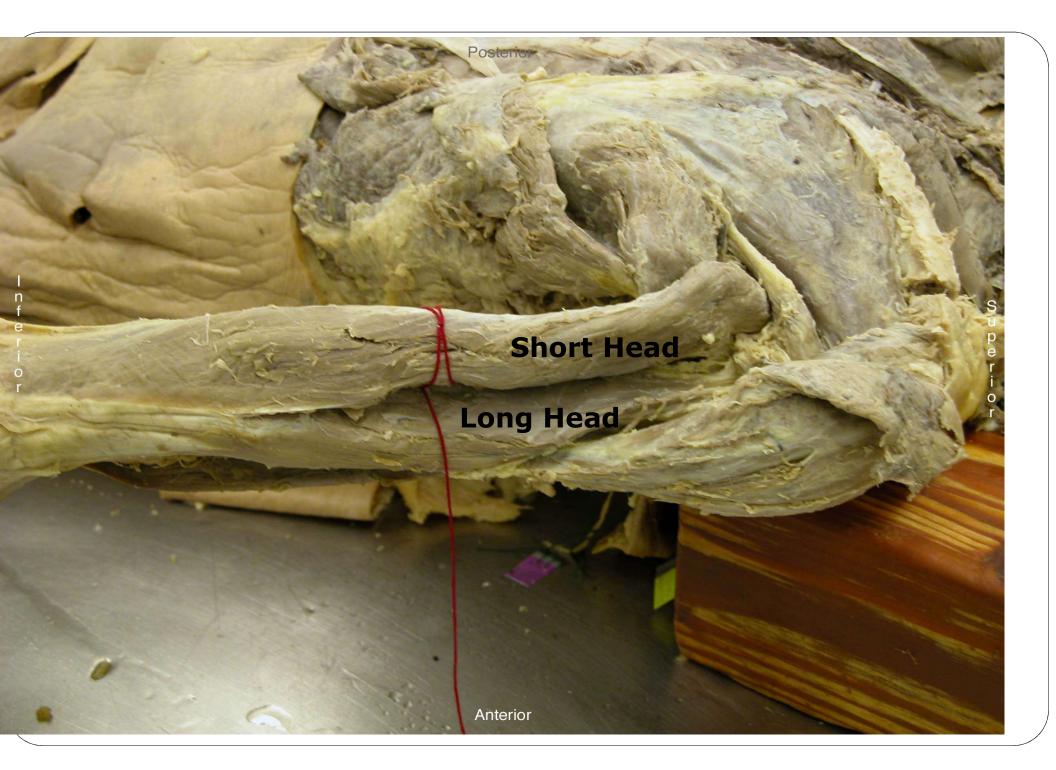
within the capsule of the shoulder joint

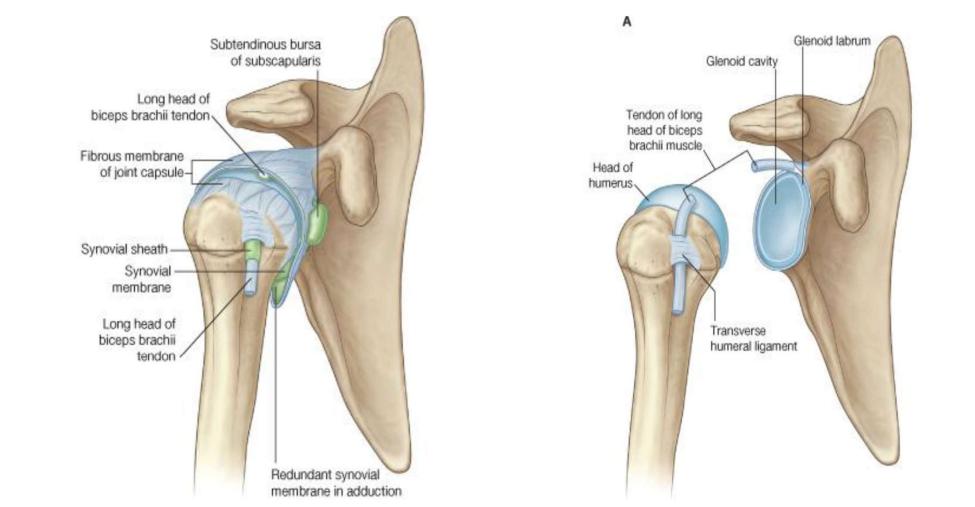
### Insertion

Radial tuberosity of radius



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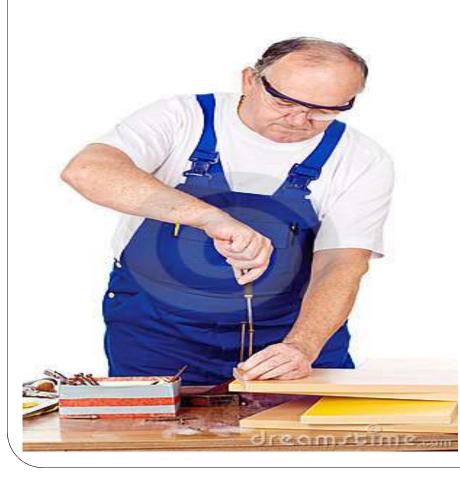
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#### **Nerve supply:**

Musculocutaneous nerve .

#### Action:

- 1. Flexion of the arm
- 2. Flexion of the elbow
- 3. Supinator of the semi-flexed forearm





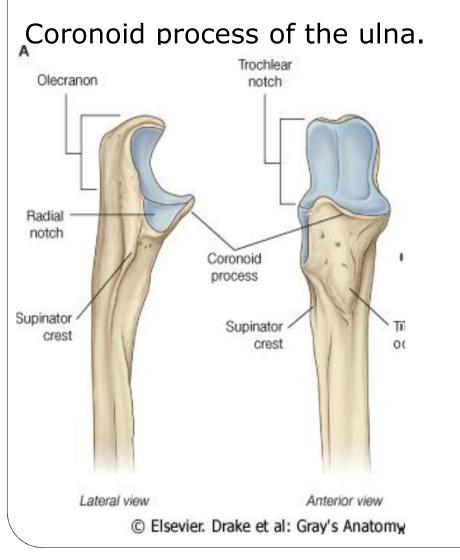
## **Brachialis**



## Origin

The lower 1/2 of the front of the humerus

## Insertion





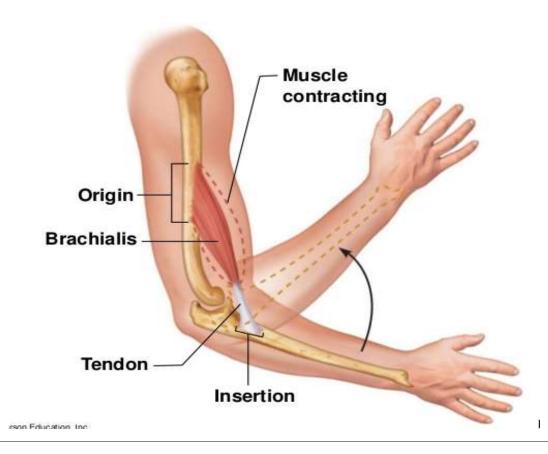
#### **Nerve supply:**

Musculocutaneous nerve .

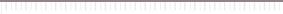
Its lateral fibers are supplied by the radial nerve.

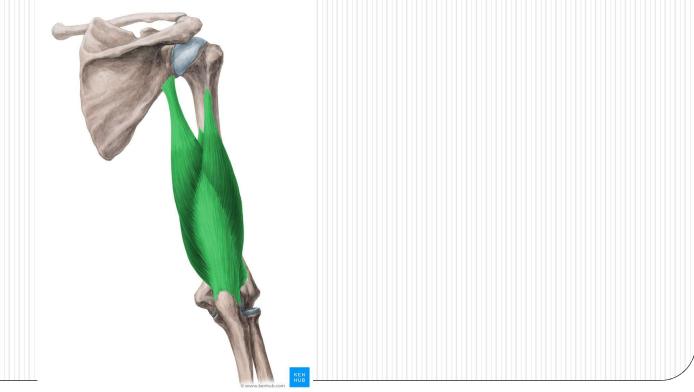
#### Action:

Main flexor the forearm.



## **Triceps brachii**





## **Origin: It has 3 heads**

**Long head:** Infraglenoid tubercle of the scapula.

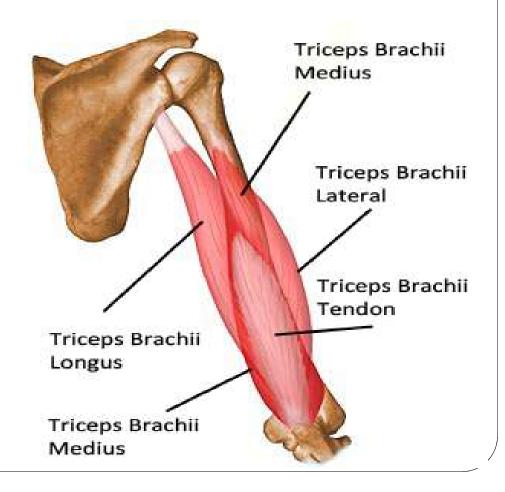
Lateral head and Medial head: Posterior surface of the humeral

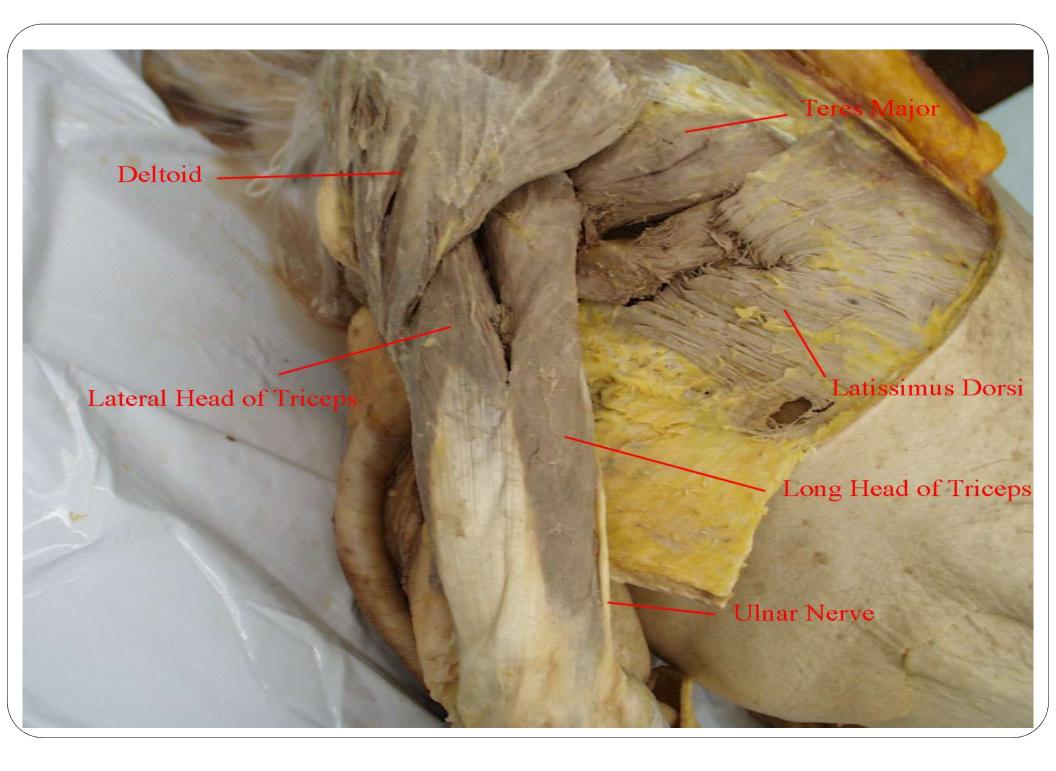
shaft

### Insertion

Olecranon process of the ulna.





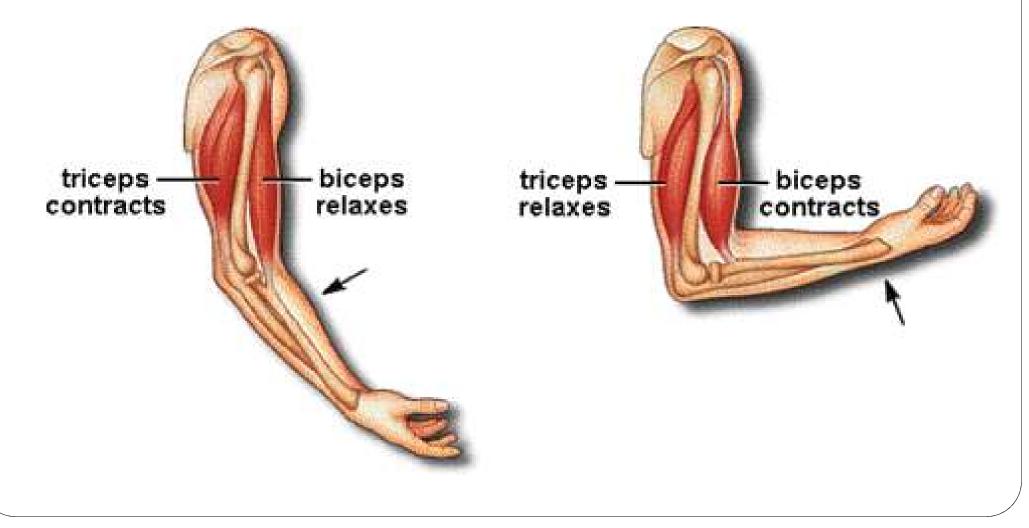


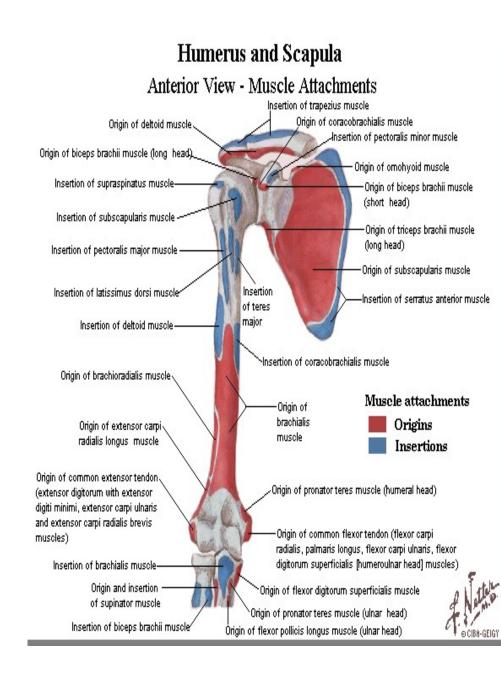
### **Nerve supply:**

Radial Nerve.

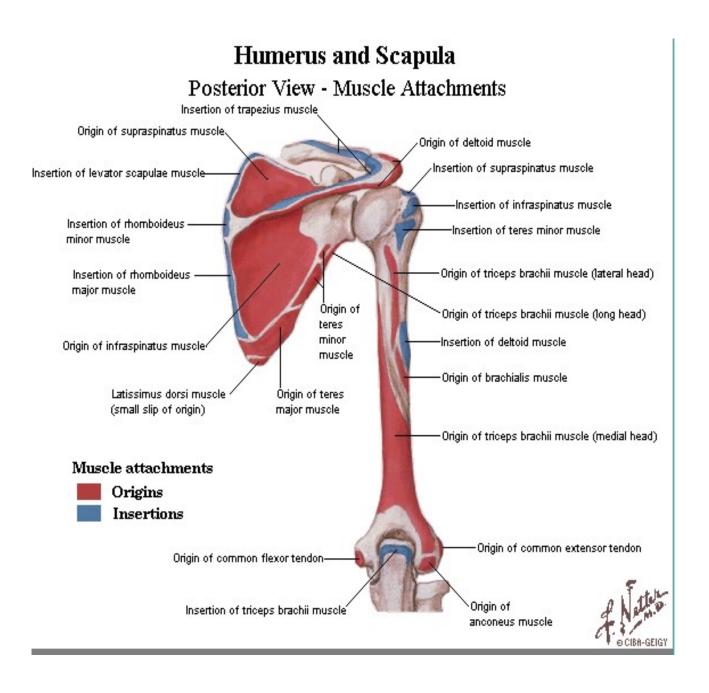
#### Action:

Main Extensor the forearm.



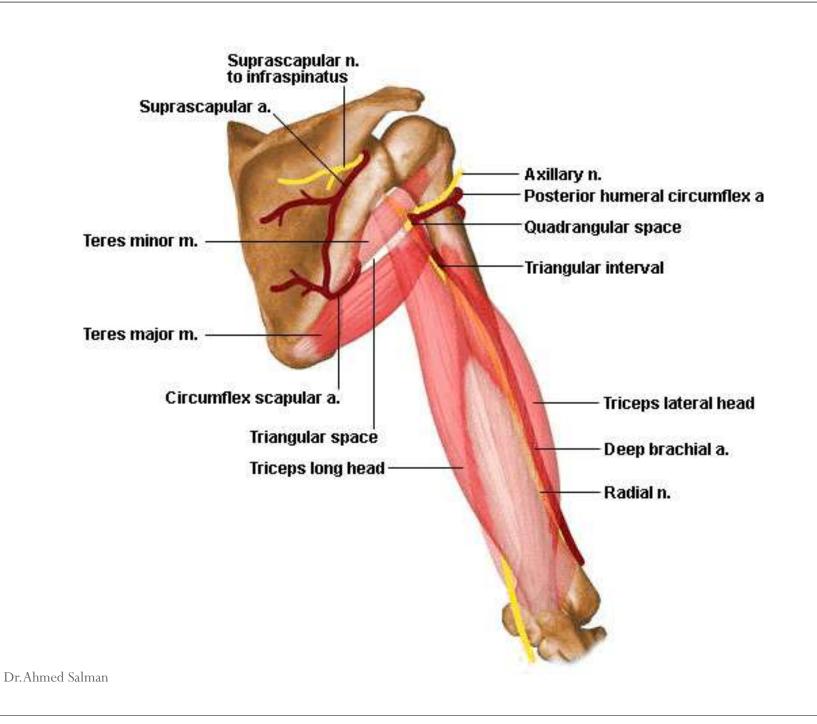


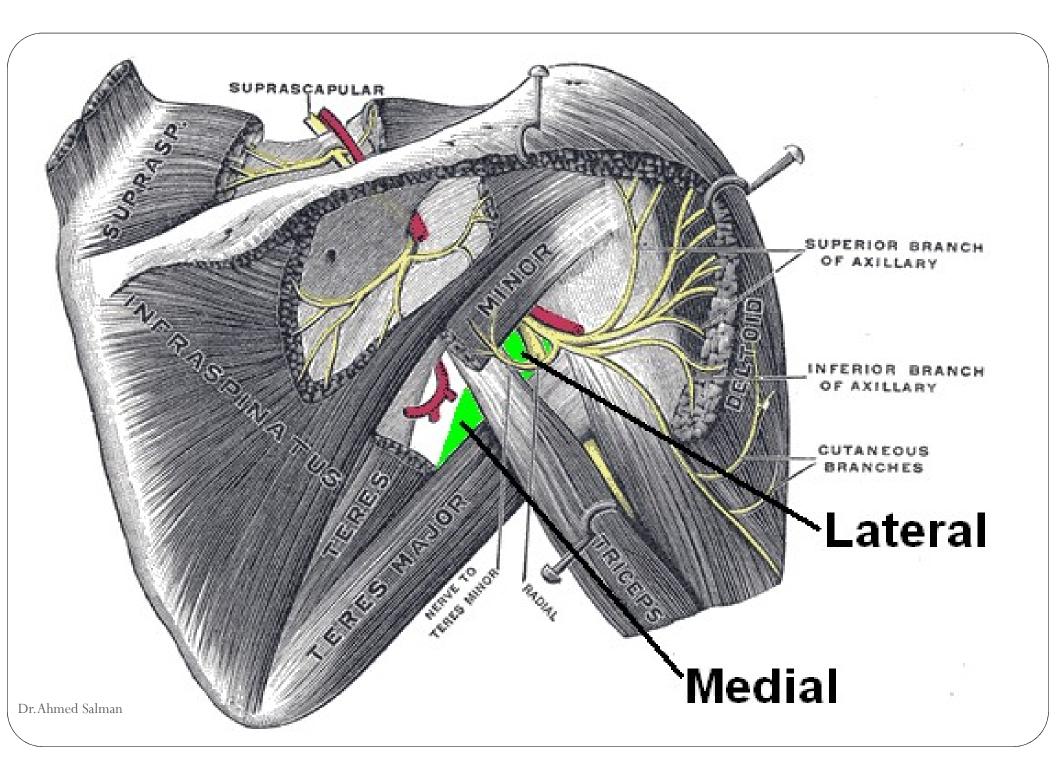


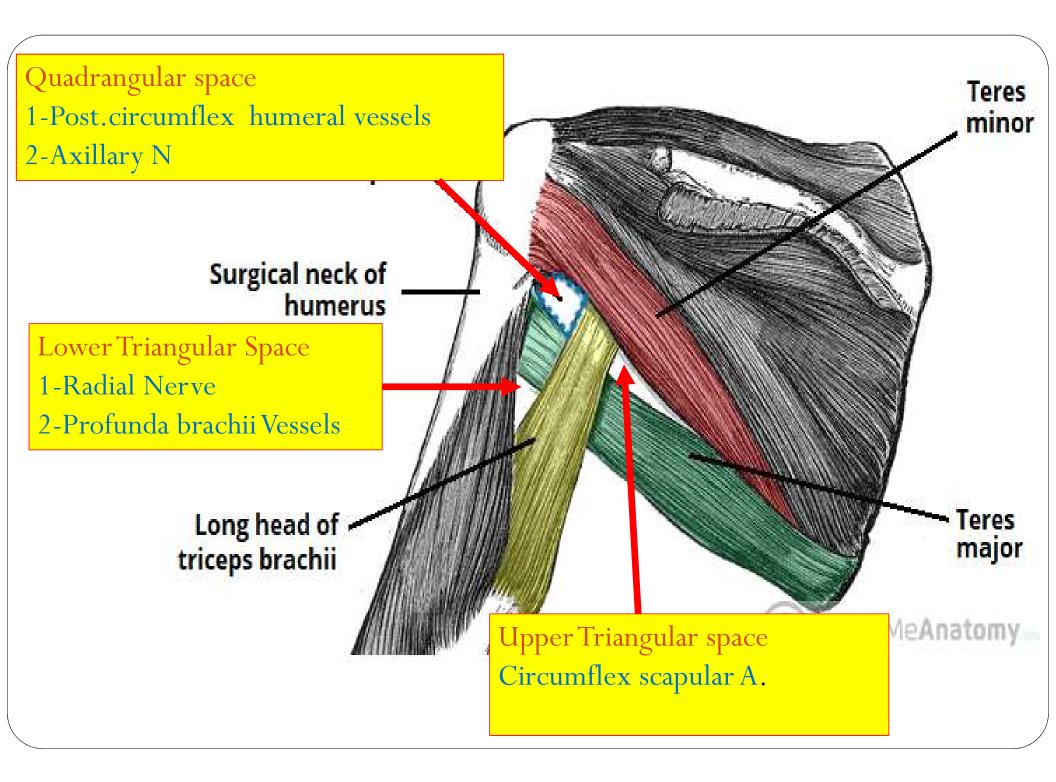


## **Spaces around the shoulder**

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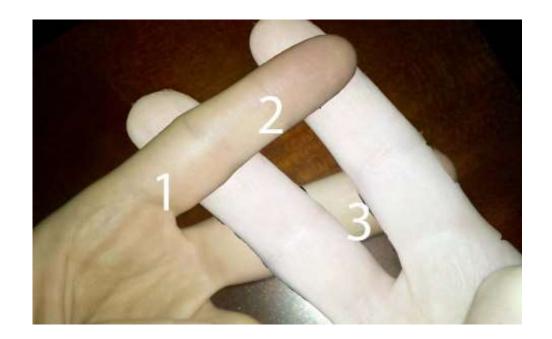


## 1. Teres Minor

2. Teres Major



Long head of Triceps
Humerus



## **1. Upper Triangular Space** Scapular circumflex artery

## 2.Qudringular space

Axillary nerve,

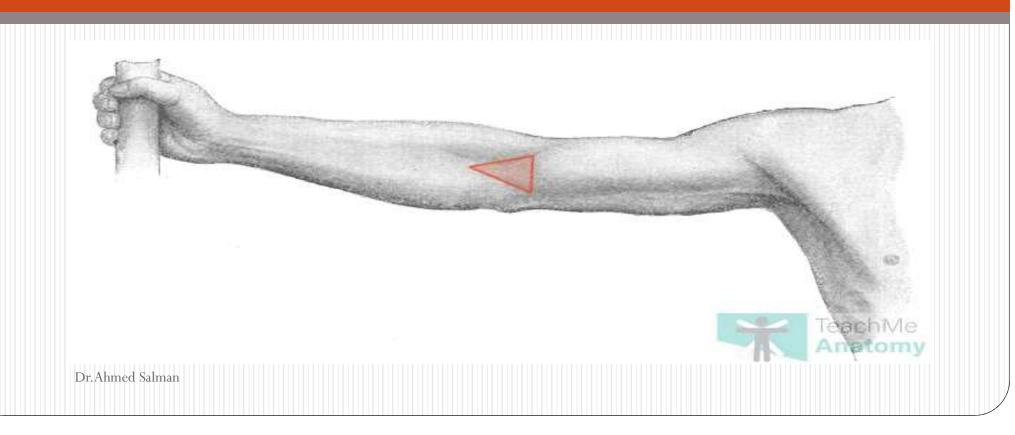
Posterior circumflex humeral artery



3. Lower Triangular space or Triangular Interval Radial nerve, Profunda brachii artery

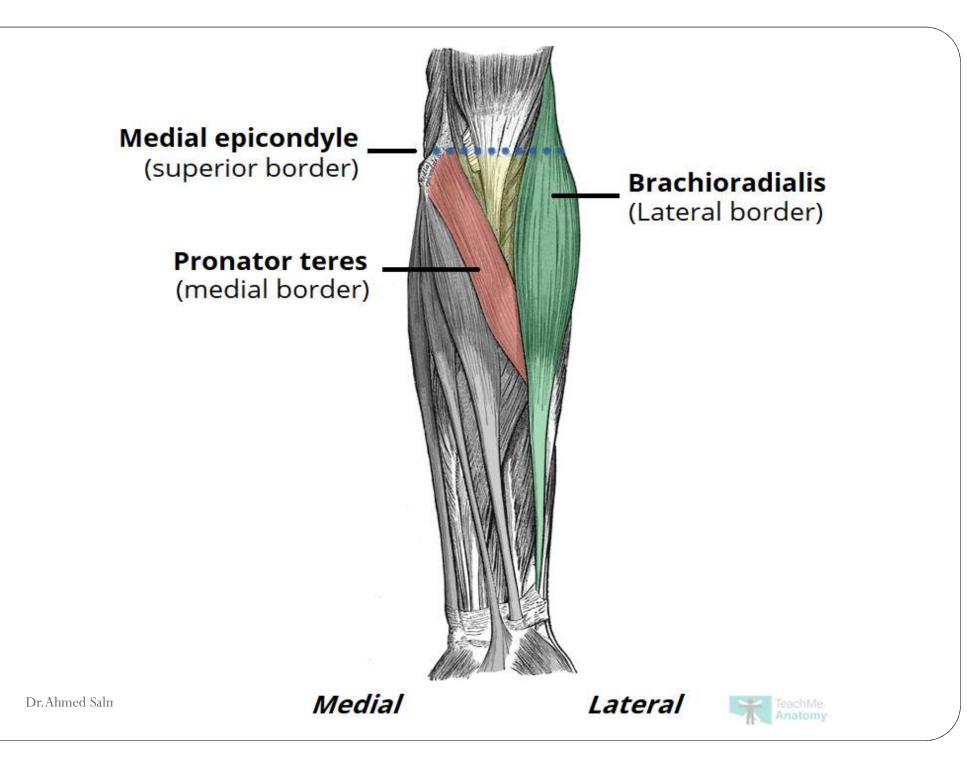
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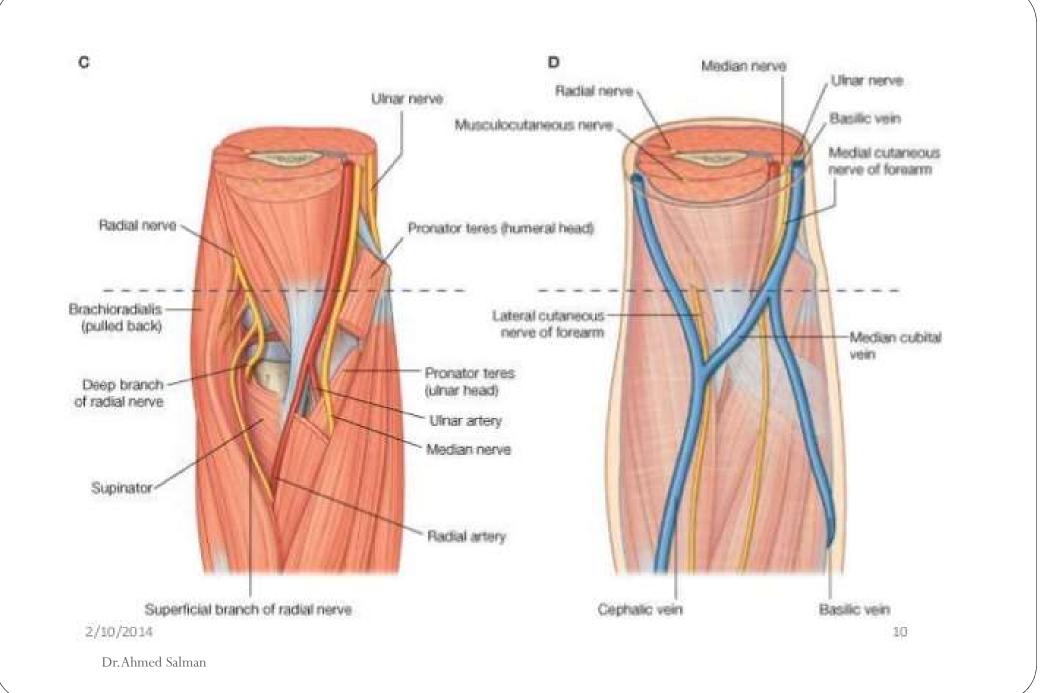
# **Cubital fossa**



The cubital fossa is a triangular area in front of the elbow joint. Boundaries :

- Laterally: brachioradialis muscle
- Medially: pronator teres muscle
- Apex : brachioradialis overlapping pronator teres
- Base: an imaginary line from the medial and lateral epicondyles.
- Floor : Brachialis medially and supinator laterally
- Roof : Skin and superficial fascia containing basalic ,cephalic and medial cubital veins

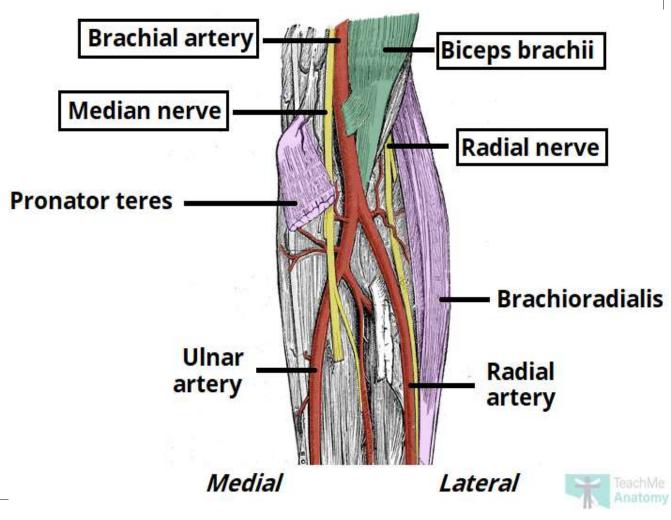




#### Contents

- 1- Median nerve
- 2- Termination of brachial artery and beginning of radial and ulnar arteries
- 3-Biceps tendon
- 4- Radial nerve

<u>Ulnar nerve outside the cubital fossa (WHY) ?</u>



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### Ulnar (cubital) tunnel

Is a fibro-osseous space located on the posteromedial aspect of the elbow.

It transmits the **ulnar nerve** from the arm into the forearm

### **Borders (REED ONLY)**

Medial wall : medial epicondyle of the humerus.

Lateral wall : olecranon of the ulna.

Floor : elbow joint capsule and medial collateral ligament of the elbow.

Roof : ligament spanning between the medial epicondyle and olecranon

The ligament forming the roof of the cubital tunnel is also known as

the cubital tunnel retinaculum or the arcuate ligament of Osbourne.

It is a band of fascia which runs between the ulnar and humeral heads of the flexor carpi ulnaris.

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