

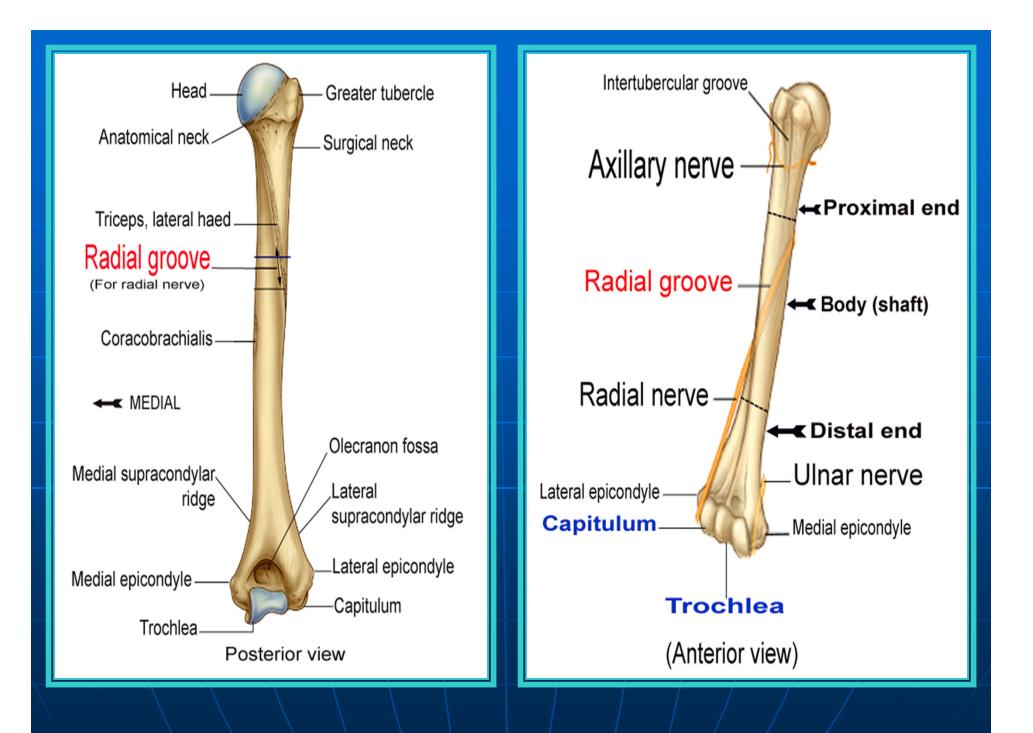
Upper Limb

Lecture 5 Upper Arm

Spring 2016

Dr. Maher Hadidi, University of Jordan

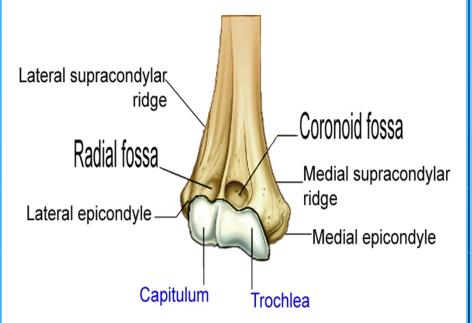
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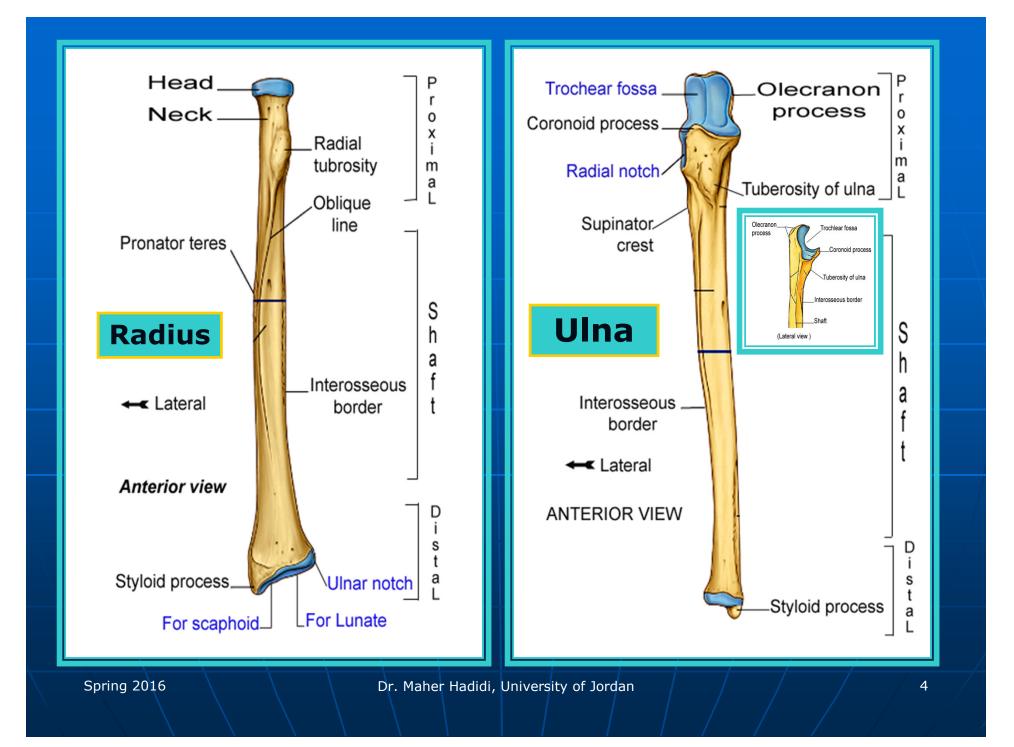
Humerus- Distal end

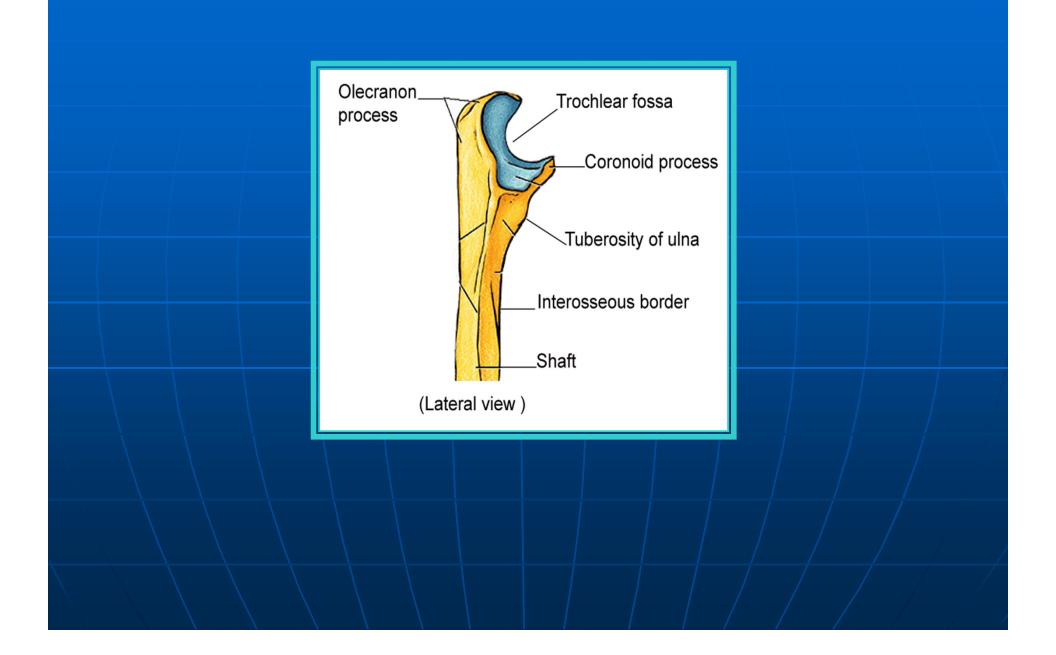
Features:

- Medial supracondylar ridge
- Lateral supracondylar ridge
- Olecranon fossa (for ulna)
- Coronoid fossa (For ulna)
- Radial fossa (for radius)

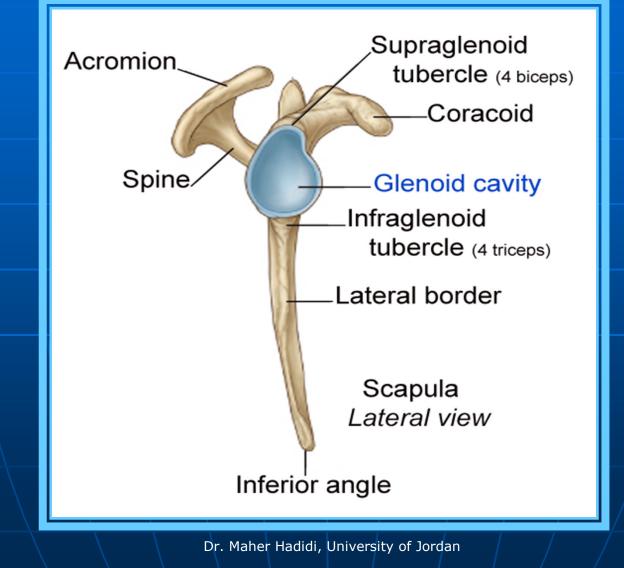


Anterior view for distal end of humerus



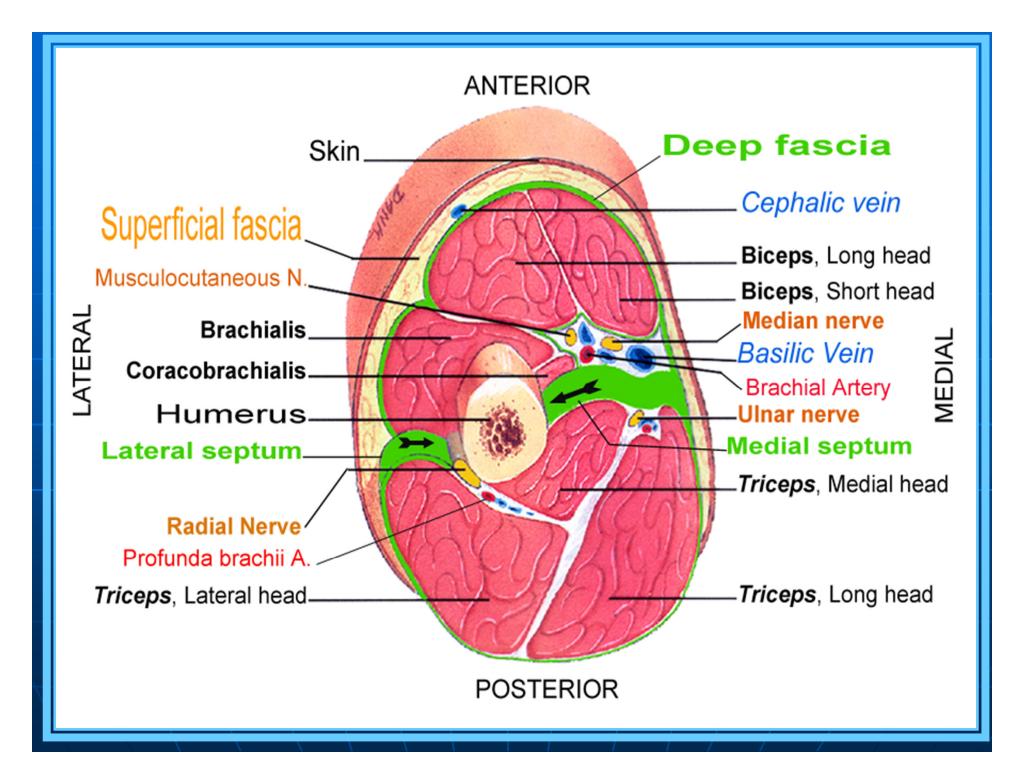


Scapula- Lateral view



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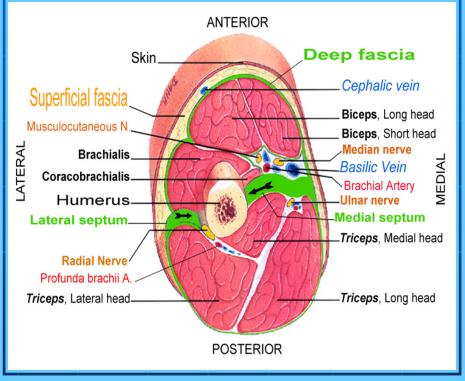
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Cross section in the Arm

Has the following layers:

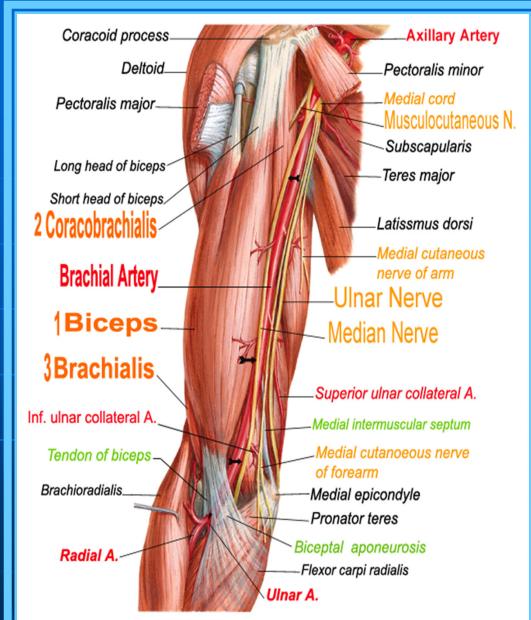
- 1. Skin
- 2. Superficial fascia, contain:
 - a. 2 veinsb. Fat
- Deep fascia, sends 2 intermuscular septums to the supracondylar ridges of humerus to divide the arm into 2 compts., Ant.& Post. Each has:
 - Its own muscles.
 - Its nerve supply.
 - Its arterial supply.
 - Its main action.



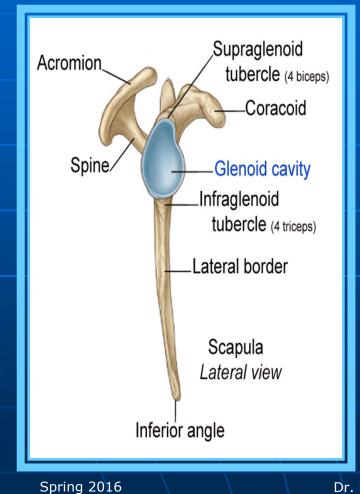
Anterior compartment of Arm

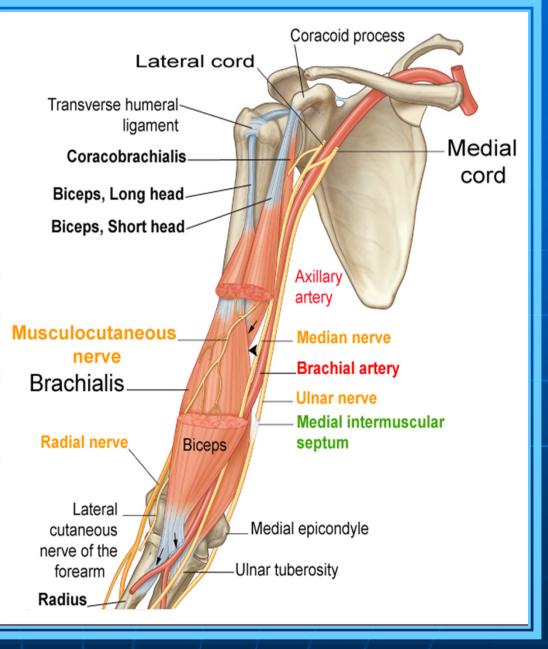
Has 3 muscles

- Biceps
- Coracobrachialis
- Brachialis
 All supplied by musculocutaneous nerve.
- All supplied by brachial artery.

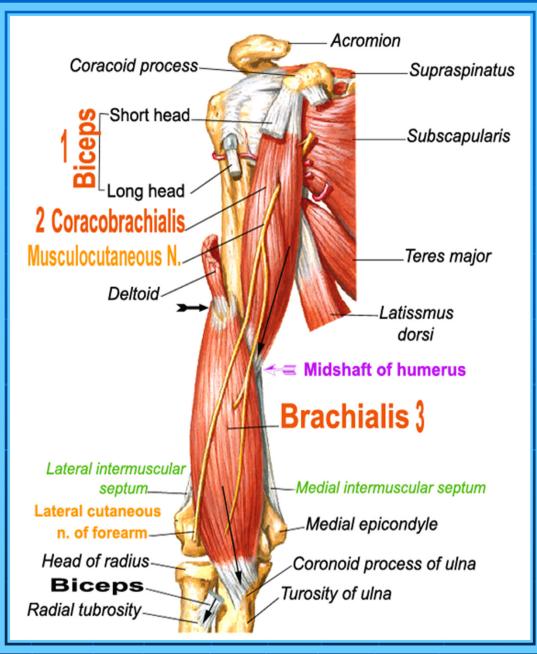


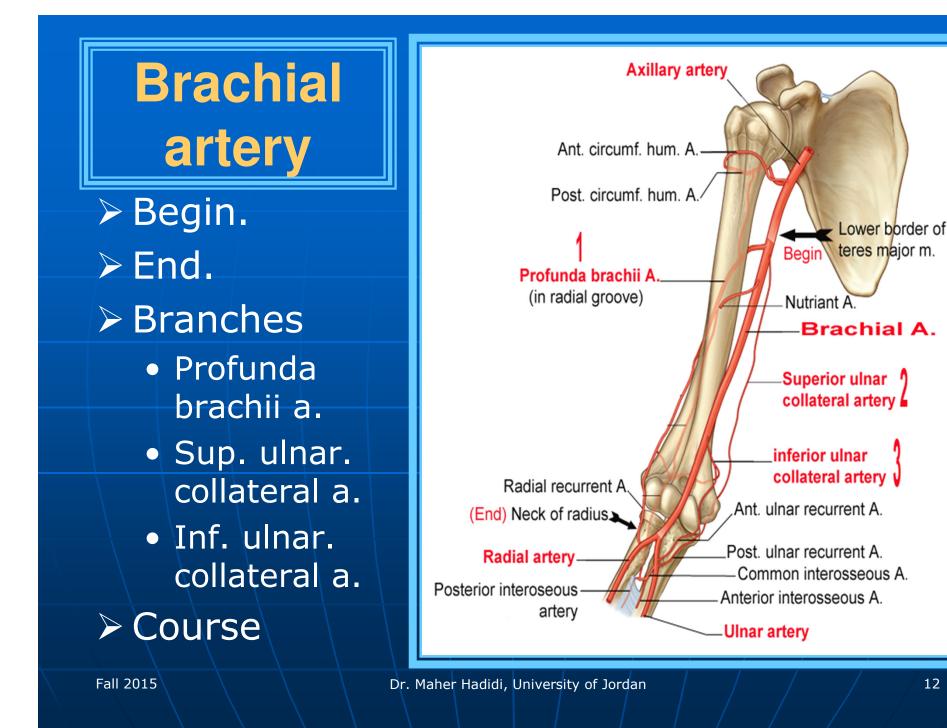
Muscles 1.Biceps brachii



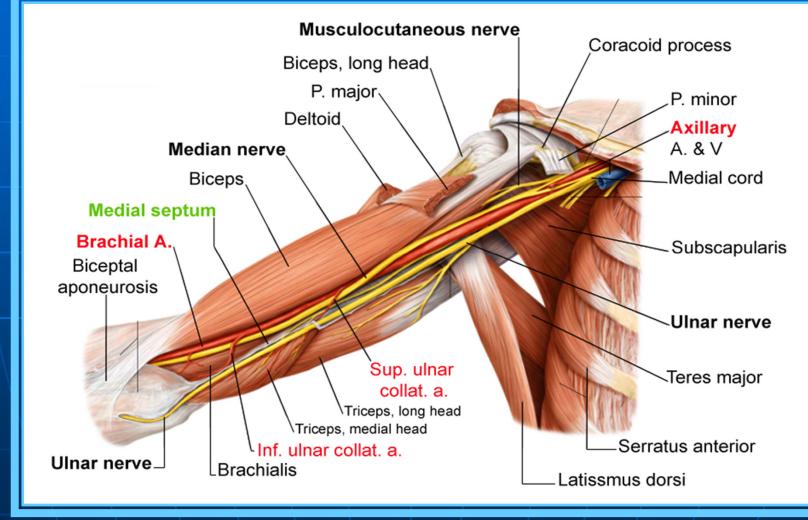


Coracobrachialis Brachialis





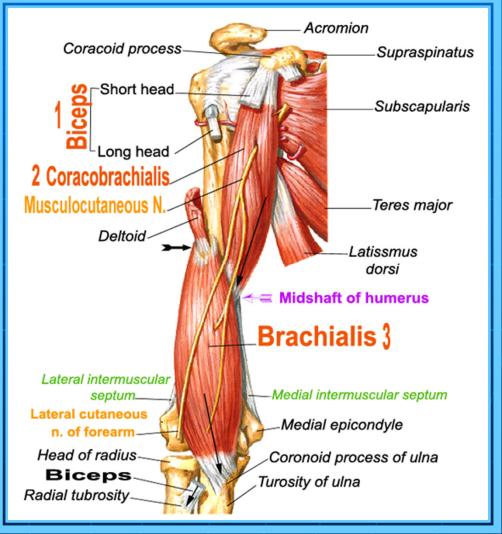
Brachial artery- Course



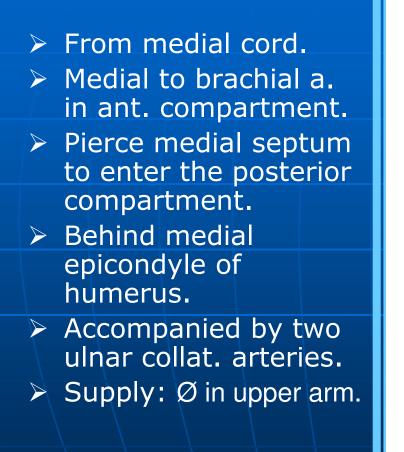
Musculocutaneous nerve

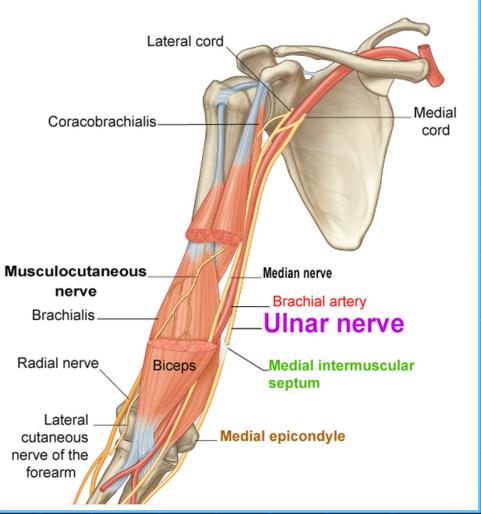
> From lateral cord. Pierce coracobrachialis M. ➢ Between 2,3. \succ Continue as lateral cutaneous n. of forearm Supply: • 3 muscles. • Skin. Elbow joint.

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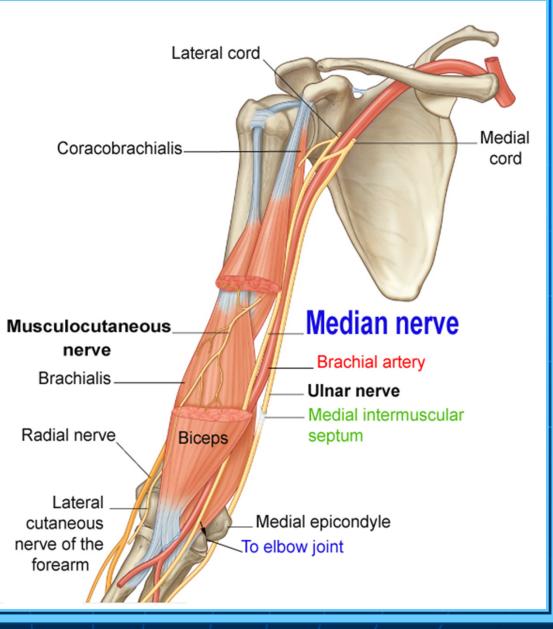


Ulnar nerve







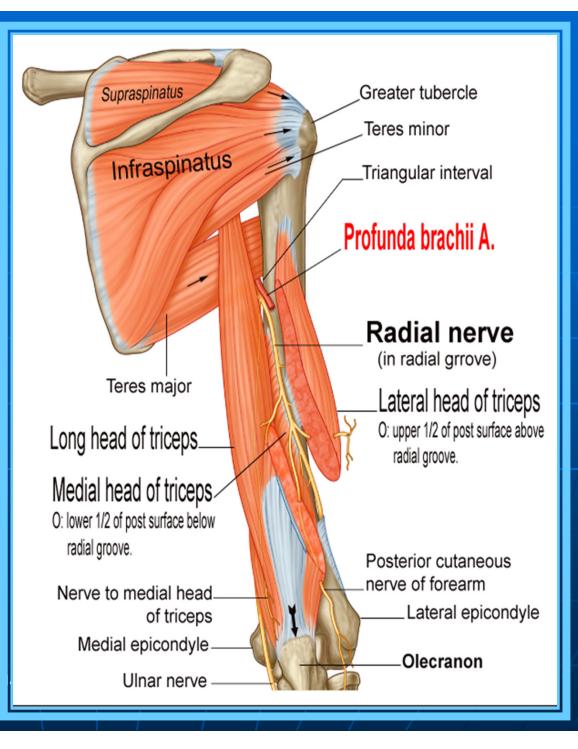


Posterior compartment of Arm

- 1 muscle with 3 heads (Triceps).
- Origin by 3 Heads:
 - Long →infraglenoid tubercle.
 - Lat. \rightarrow Humerus above radial groove.
 - Med. → Humerus below radial groove.

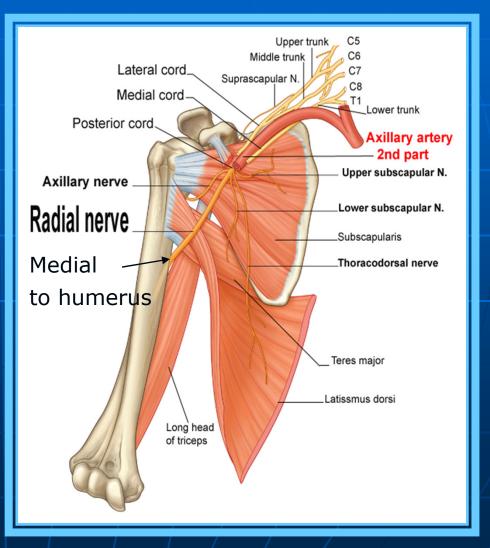
Dr.

- Ins.: Olecranon process.
- <u>NS:</u> Radial nerve.
- <u>Action:</u> Extends elbow.
- Supplies by Profunda brachii artery.



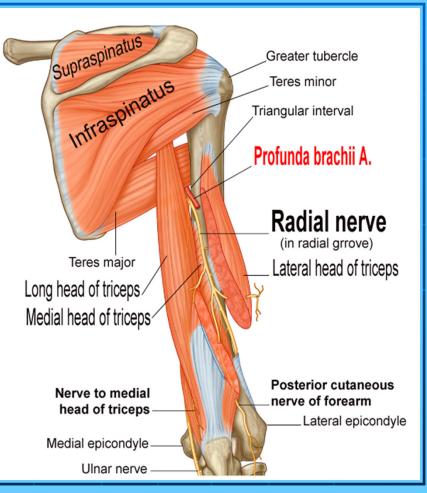
Radial nerve

- From posterior cord.
- Largest branch of brachial plexus.
- Pass posterior to axillary a.
- In the axilla, give branches to the long head and medial head of triceps.
- Leave medial and lateral to the humerus, enter the posterior compartment.



Radial nerve

- In the posterior compartment, pass within the radial groove and between Medial & Lateral heads of triceps accompanied with profunda brachii artery.
 At lower part, pierce lateral septum to the anterior
- septum to the anterior compartment to enter the cubital fossa.



Radial nerve injury

 Fracture of midshaft of the humerus, may involve the radial nerve in the spiral groove. Causing paralysis of muscles distal that site.

