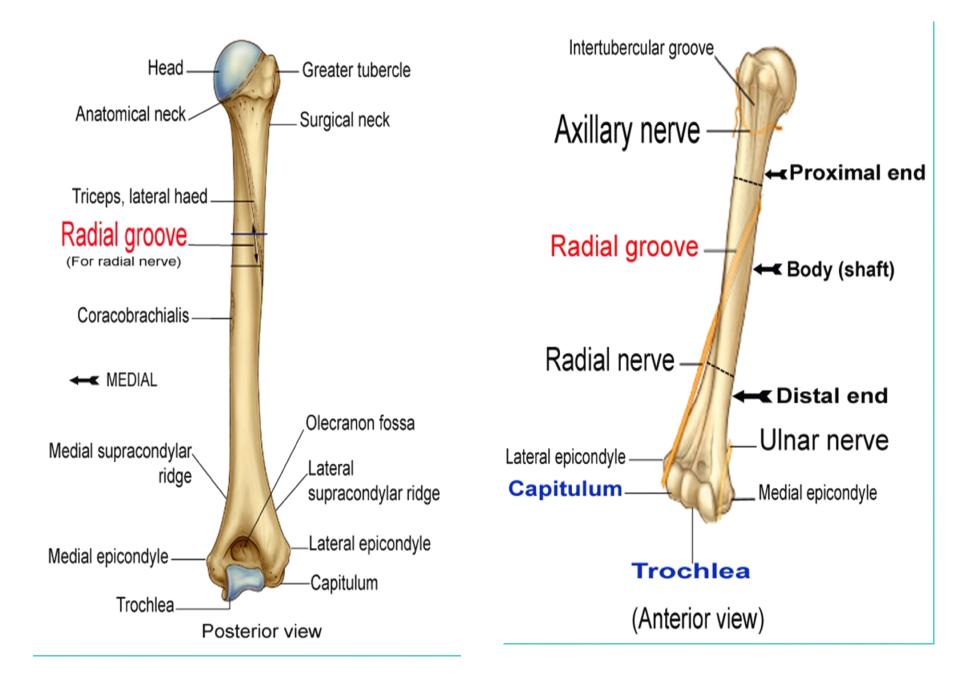


Upper Limb

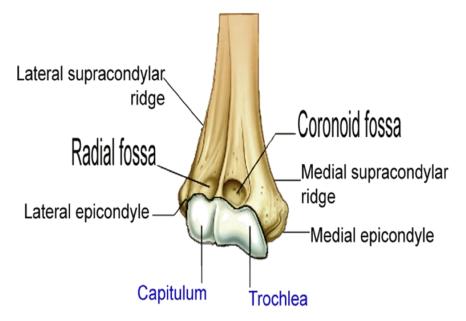
Lecture 5 **Upper Arm**



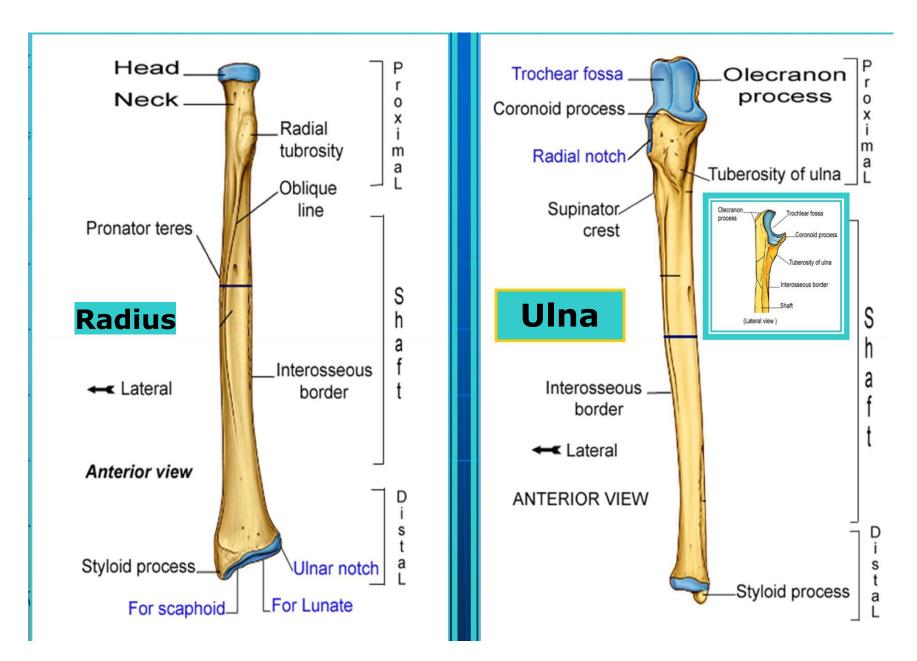
Humerus- Distal end

Features:

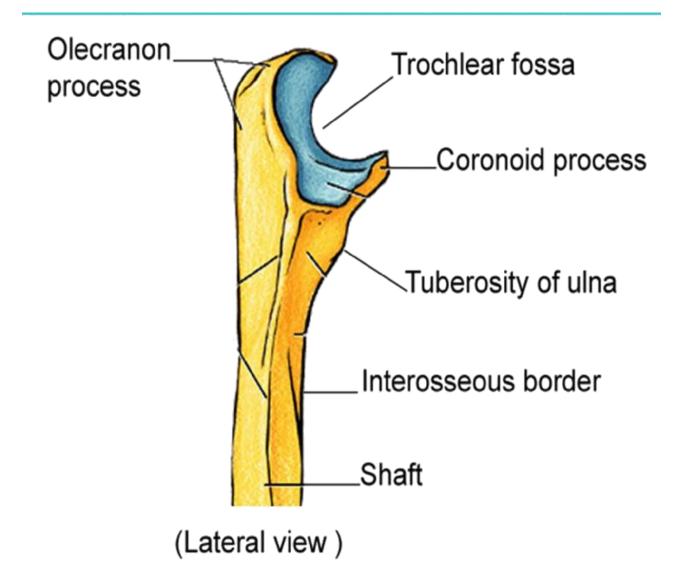
Medial supracondylar ridge Lateral supracondylar ridge Olecranon fossa (for ulna) Coronoid fossa (For ulna) Radial fossa (for radius)



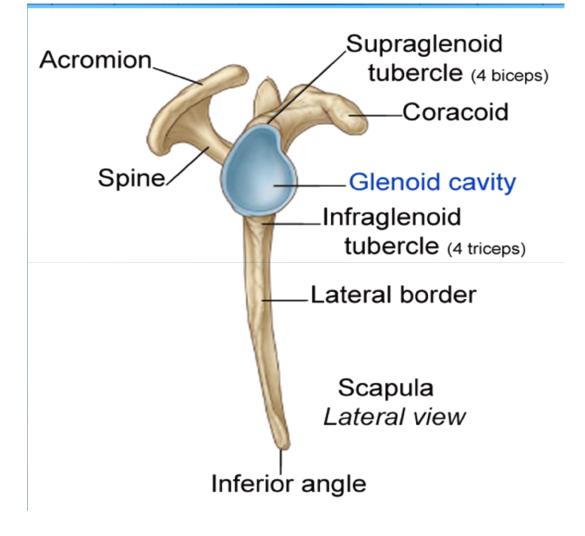
Anterior view for distal end of humerus

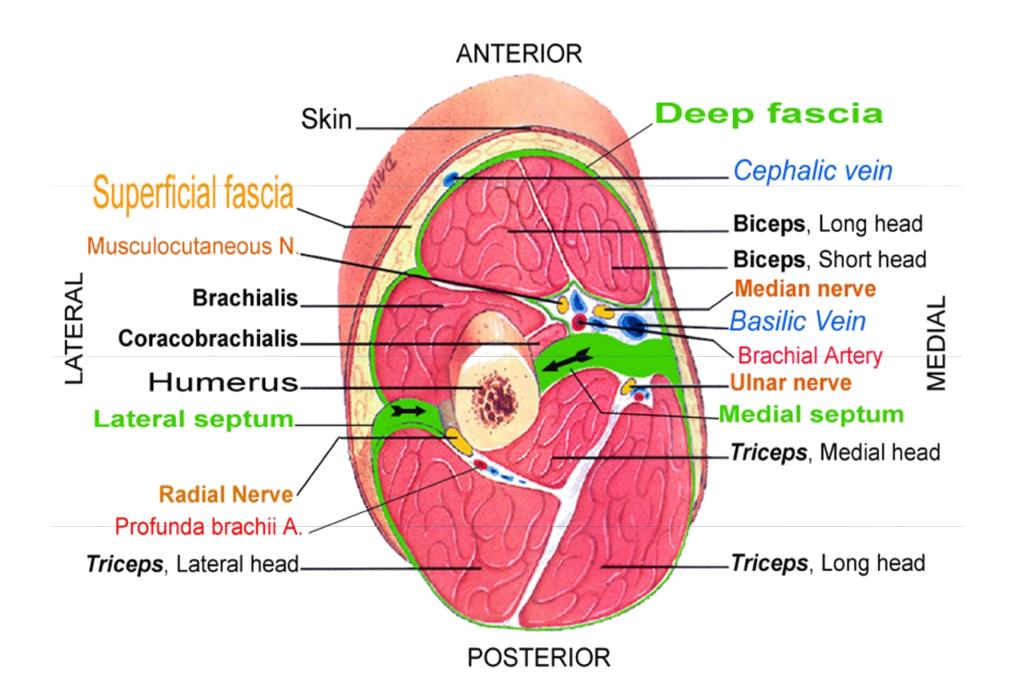


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Scapula- Lateral view

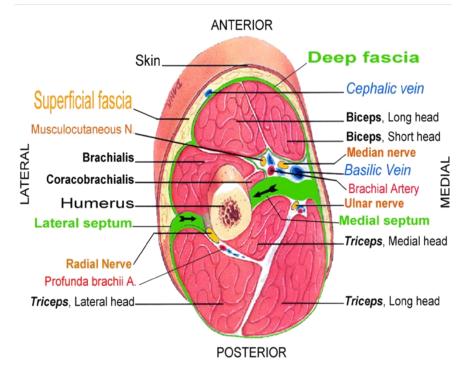




Cross section in the Arm

Has the following layers:

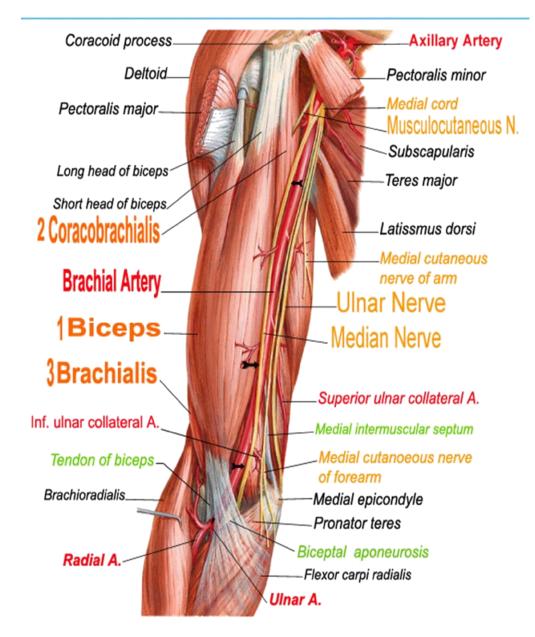
- 1. Skin
- 2. Superficial fascia, contain:
 - a. 2 veins b. Fat
- 3. Deep fascia, sends **2** intermuscular septums to the supracondylar ridges of humerus to divide the arm into 2 compts., Ant.& Post. Each has:
 - Its own muscles.
 - Its nerve supply.
 - Its arterial supply.
 - Its main action.

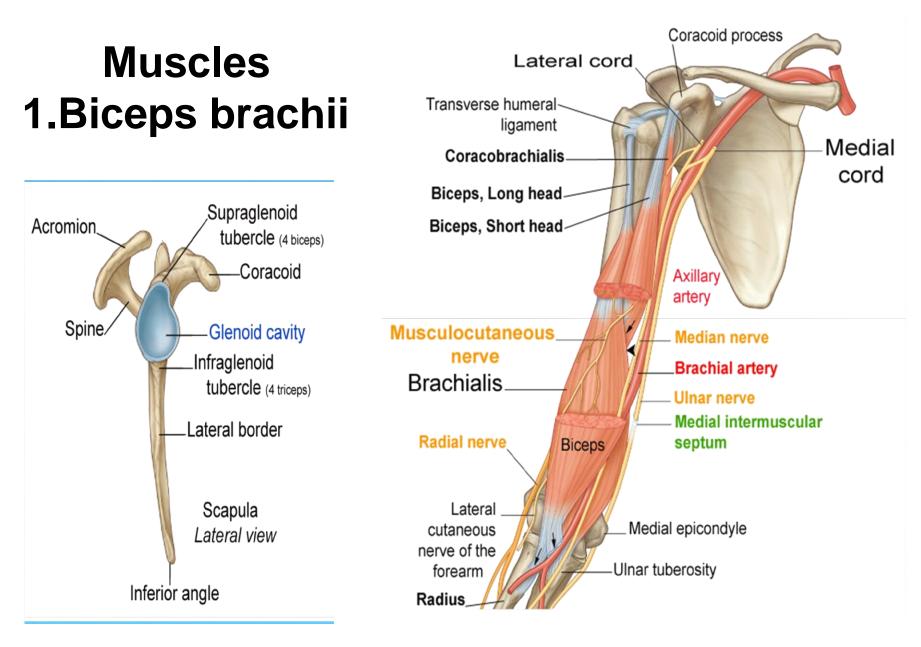


Anterior compartment of Arm

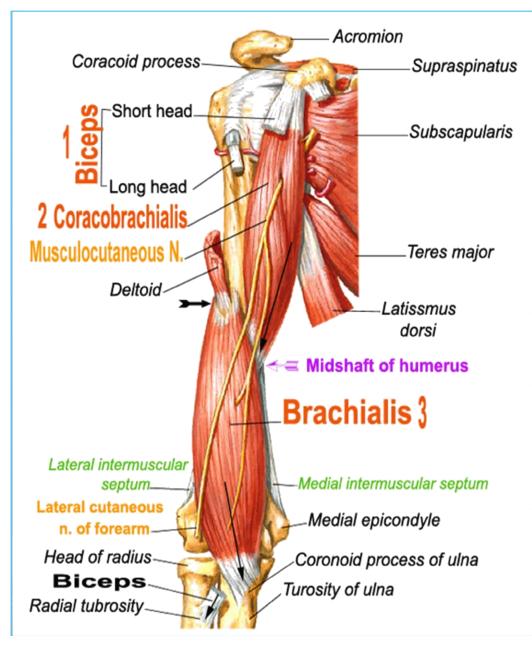
- Has 3 muscles
 - Biceps
 - Coracobrachialis
 - Brachialis All supplied by musculocutaneous nerve.

All supplied by brachial artery.





Coracobrachialis Brachialis



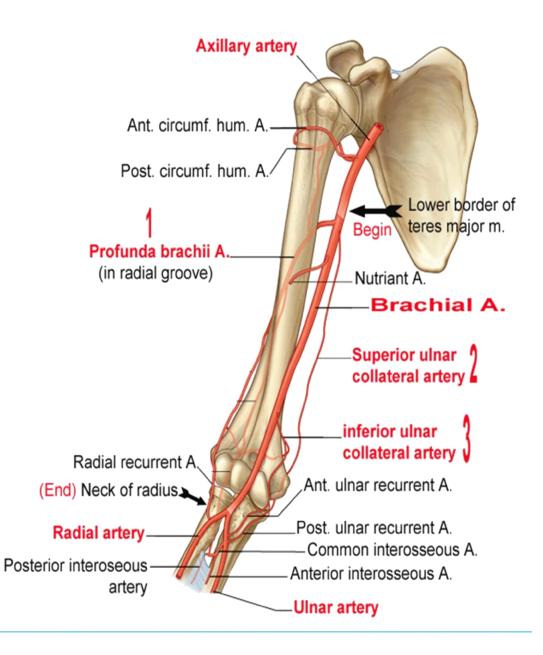
Brachia I artery

Begin. End.

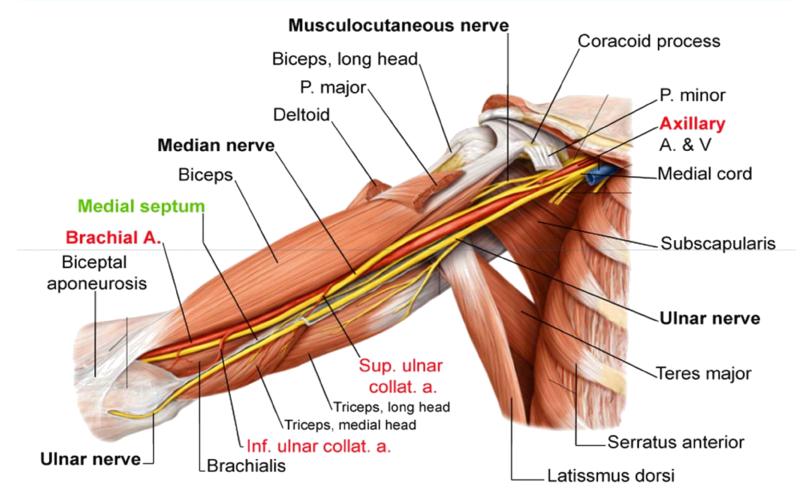
Branches

- Profunda brachii a.
- Sup. ulnar. collateral a.
- Inf. ulnar. collateral a.

Course



Brachial artery- Course

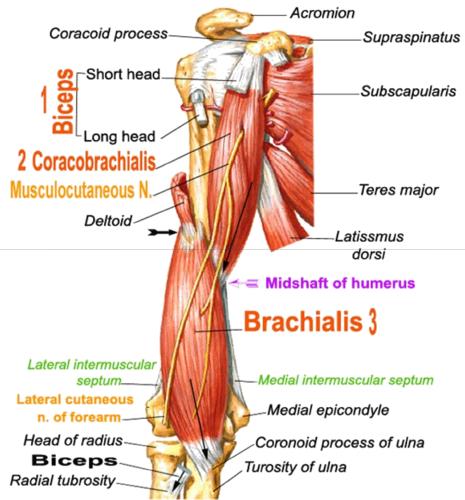


Musculocutaneous nerve

From lateral cord. Pierce coracobrachialis M. Between 2,3. Continue as lateral cutaneous n. of forearm

Supply:

- 3 muscles.
- Skin.
- Elbow joint.



Ulnar nerve

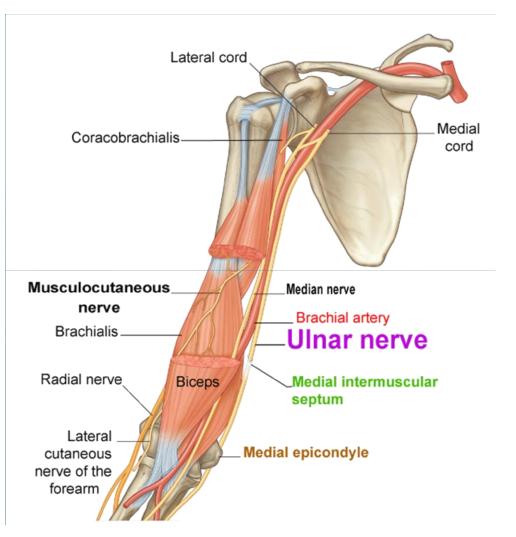
From medial cord.

Medial to brachial a. in ant. compartment. Pierce medial septum to enter the posterior compartment.

Behind medial epicondyle of humerus.

Accompanied by two ulnar collat. arteries.

Supply: Ø in upper arm.



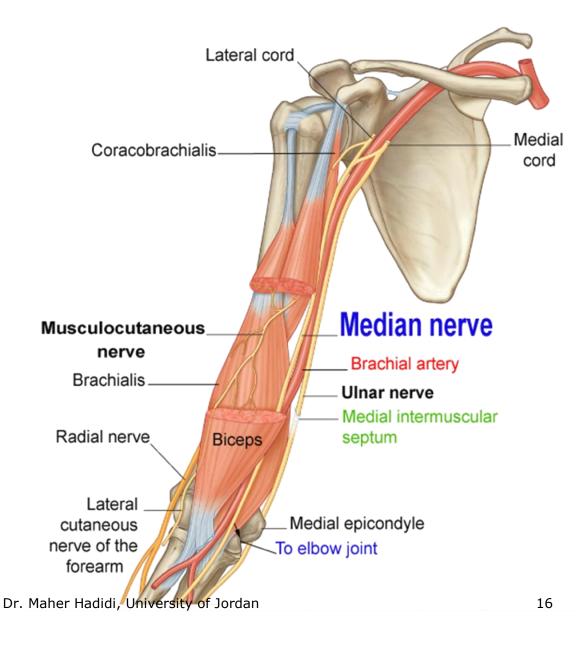
Median

nerve

From M & L cords. Relations to brachial A.

- Lateral.
- 📥 Anterior.
- Medial. Enter cubital fossa medially.

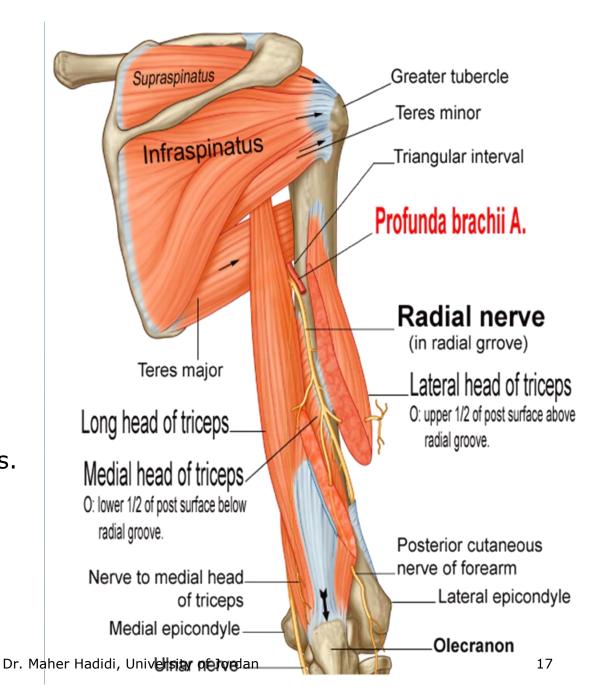
Supply: Ø nothing in upper arm.



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Posterior compartment of Arm

- 1 muscle with 3 heads (Triceps).
- Origin by 3 Heads:
 - Long \rightarrow infraglenoid tubercle.
 - Lat. \rightarrow Humerus above radial groove.
 - Med. \rightarrow Humerus below radial groove.
- Ins.: Olecranon process.
- NS: Radial nerve.
- Action: Extends elbow.
- Supplies by Profunda brachii artery.



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Radial nerve

From posterior cord.

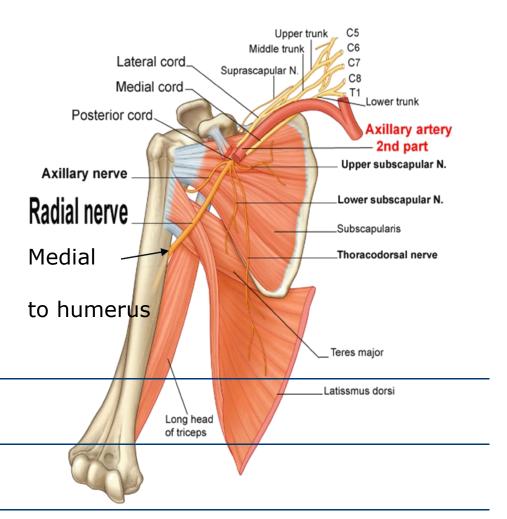
Largest branch of brachial plexus.

Pass posterior to axillary a.

In the axilla, give branches to the long head and medial head of triceps.

Leave medial and lateral to

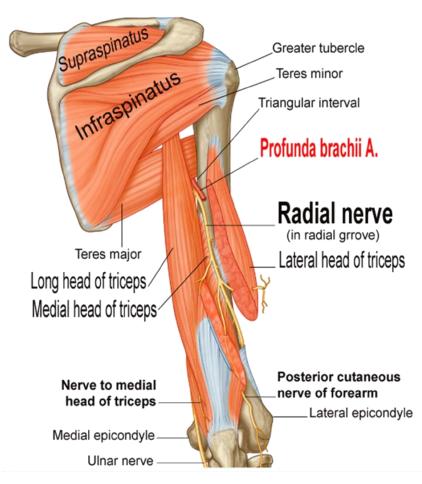
the humerus, enter the posterior compartment.



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 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.

