

Brachial artery

main artery of arm.

ORIGIN

Continuation of axillary artery below lower border of
teres major.

COURSE & TERMINATION

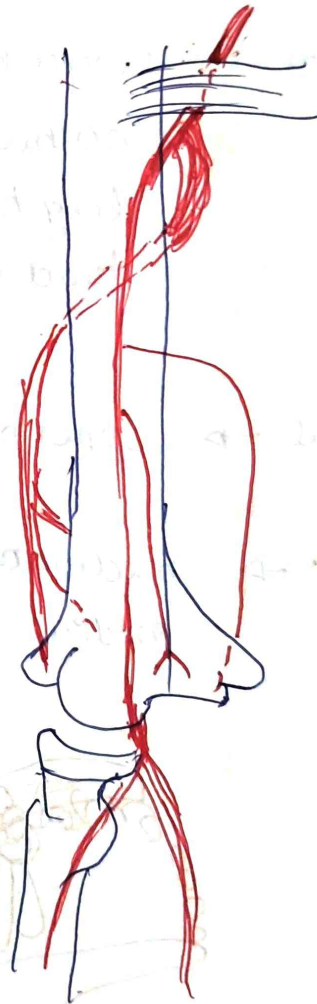
begins at lower border of
teres major descends down in
anterior compartment.
reaches cubital fossa.

TERMINATION

In cubital fossa - 2 terminal
branches.

radial & ulnar artery.

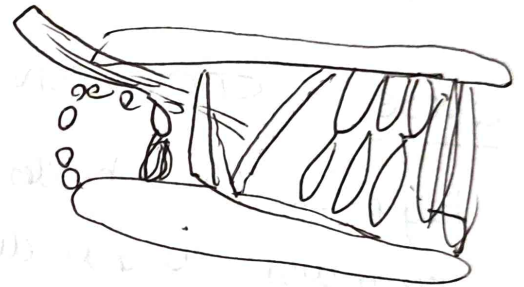
@ neck of radius ★



RELATIONS

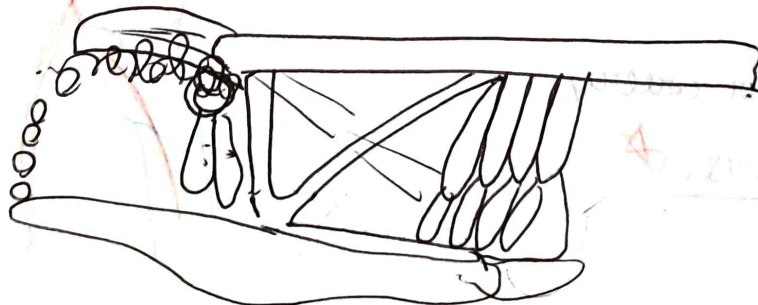
Anterior- : SKIN
superficial fascia.
deep fascia.
Biceps brachii
deep aponeurosis @ bifurcation/
Cubital fossa.

Posterior : Coracobrachialis
Brachialis.
long head & medial
head of biceps.



Lateral → upper part - median nerve.

medial → median nerve → lower part.
medial cutaneous nerve of arm.



Branches

- ① Profunda brachii artery : first & largest branch
accompanied by radial nerve.
pass through lower D space
→ spiral groove.
- ② Superior ulnar collateral artery : arise @ middle of arm.
accompanied ulnar nerve.
- ③ Inferior ulnar collateral artery : arises at lower end of humerus → anterior & post divide,
↓
circular anastomosis around elbow.
- ④ Radial & Ulnar artery - terminal branches.
- ⑤ Nutrient artery. → enters nutrient foramen @ Lvl of insertion of coracobrachialis.
- ⑥ Muscular branches → to muscles → brachialis
coraco brachio
biceps
deltoid.
- ⑦ Articular → Shoulder & elbow joint.

Applied anatomy

- brachial pulse → in cubital fossa.
recording bp.
- Stop bleeding → Compression brachial artery @ shaft of humerus.

- rupture in supracondylar fracture.

→ Volkmann's Ischaemic contracture

↓
Sudden occlusion of B.A

↓
Ischaemia of flexor muscles of forearm.

↓
necrosis

↓
wrist - flex

MP - Extend

IP - flex.

Anatomoses around elbow joint / Cubital anatomoses

Important anastomotic communication between brachial artery & radial & ulnar artery.

DIVISIONS

IN FRONT OF MEDIAL EPICONDYLE

→ Inferior ulnar collateral artery = Anterior ulnar recurrent.
↓
brachial artery branch
↓
ulnar artery branch.

BEHIND THE MEDIAL EPICONDYLE

Superior ulnar collateral artery = posterior ulnar recurrent artery
(ulnar artery)
brachial artery.

IN FRONT OF LATERAL EPICONDYLE

Anterior descending branch
(profunda brachii) = radial recurrent artery

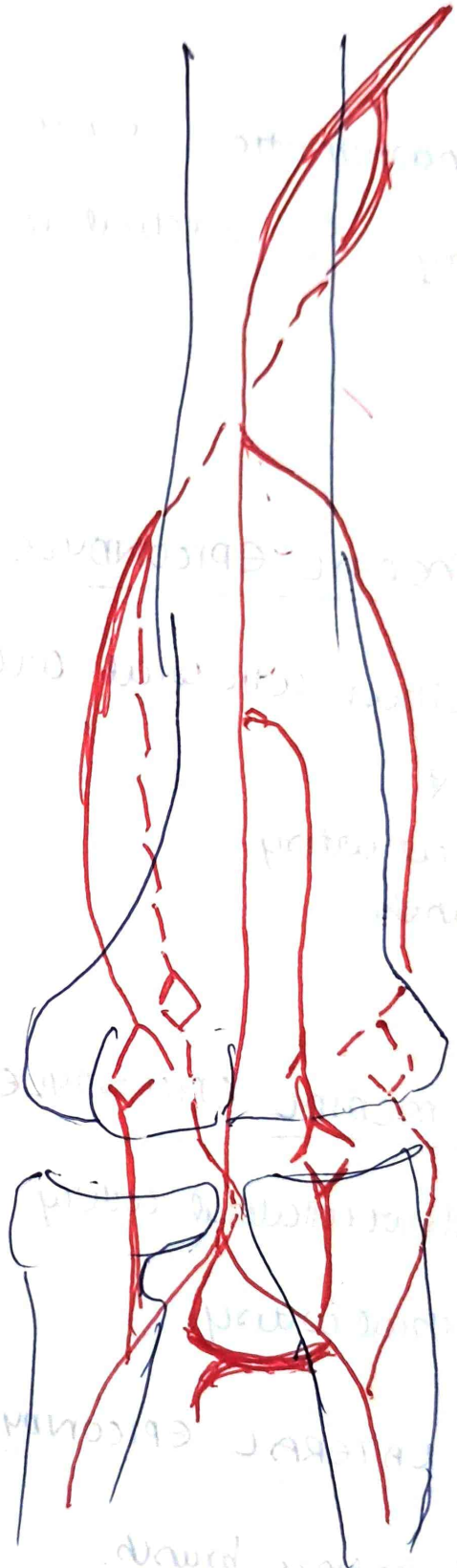
Behind L. EP

posterior descending
(prof)

= Interosseous recurrent artery
(PIA Anterior → ulnar artery).

Hand sound 1, 2, 4.

25 Wm.
Shih.
Wob.



Order of drawing hand.
(Prof. J. J. ...)

10 1 2 3 4

Hand drawing

PROFUNDA BRACHI ARTERY



ORIGIN

- postero-medial aspect of brachial artery below level major.

COURSE:

behind humerus - spiral groove - with radial nerve.

TERMINATION - anterior & posterior descending branches.

Branches

muscular branches.

- ① deltoid branch
- ② Nutrient artery (in spiral groove)

Anterior } descending → anastomoses in elbow.
 posterior } branches
 U know with who ...