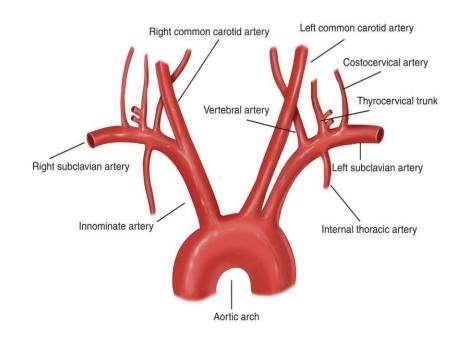
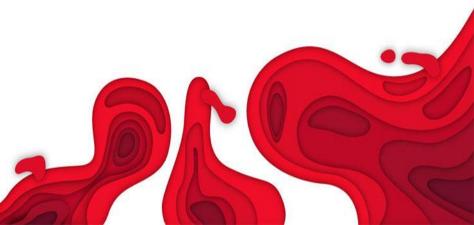
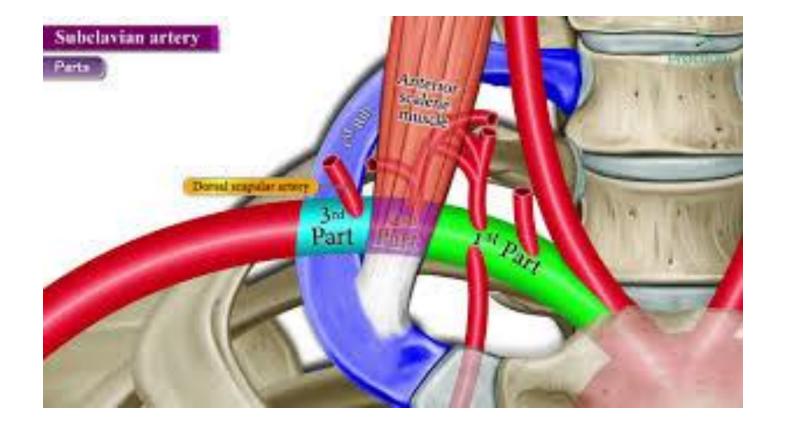


Subclavian Artery start:

- The right subclavian artery arises from the brachiocephalic artery behind the right sternoclavicular joint
- The left artery arises from the arch of aorta behind the manubrium sterni.
 Both arteries enter the neck behind the
 sternoclavicular joints.







Parts: The scalenus anterior muscle divides the artery into 3 parts;

- √ 1st part (medial)
- √ 2nd part (deep)
- √ 3rd part (lateral) to the muscle.

Branches of subclavian artery

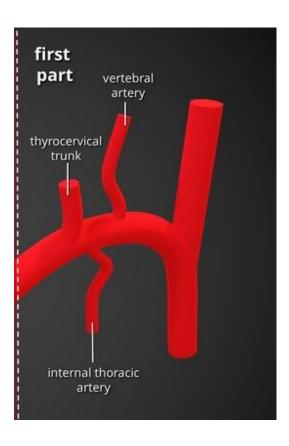
1 1st part: gives 3 branches

- (1) Vertebral artery.
- (2) Internal thoracic (mammary) artery.
- (3) Thyrocervical trunk that give

A- Inferior thyroid artery
B-Suprascapular

artery

C-transverse cervical artery

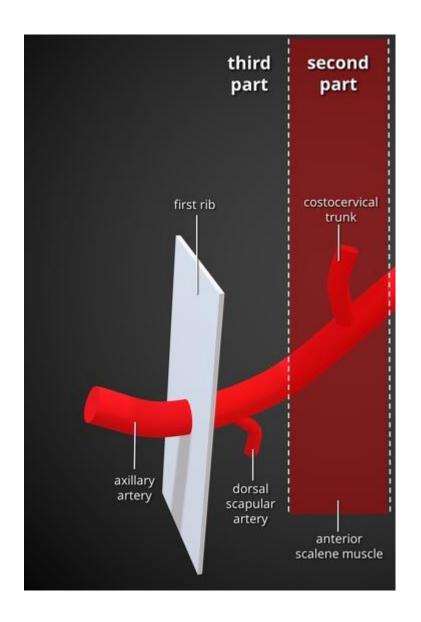


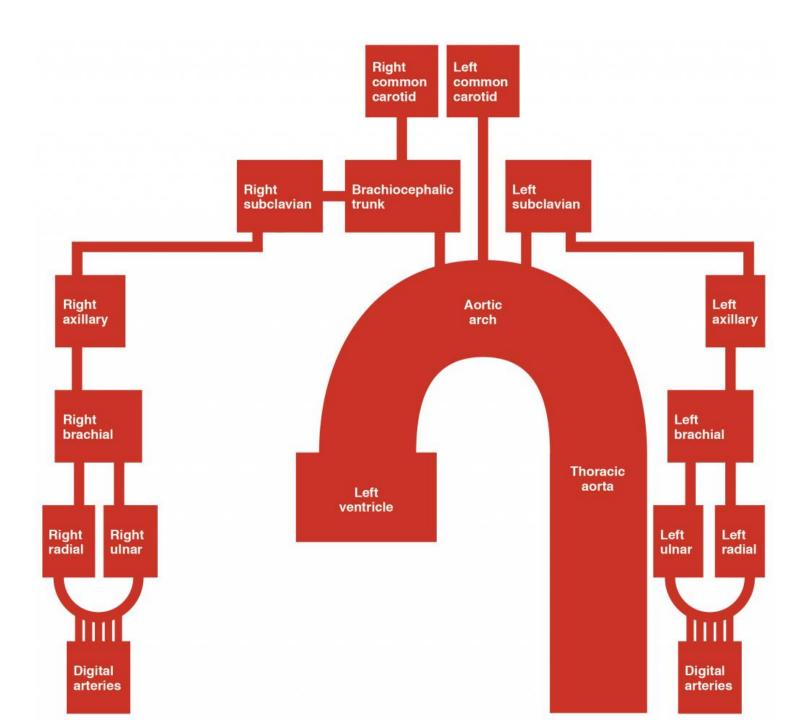
Branches of subclavian artery

2nd part: costocervical trunk:

- 1. Superior intercostal artery: give the 1st and 2nd posterior Intercostal arteries.
- 2. Deep cervical artery

3rd part: no branches, but occasionally gives dorsal scapular artery if deep branch of transverse cervical artery absent



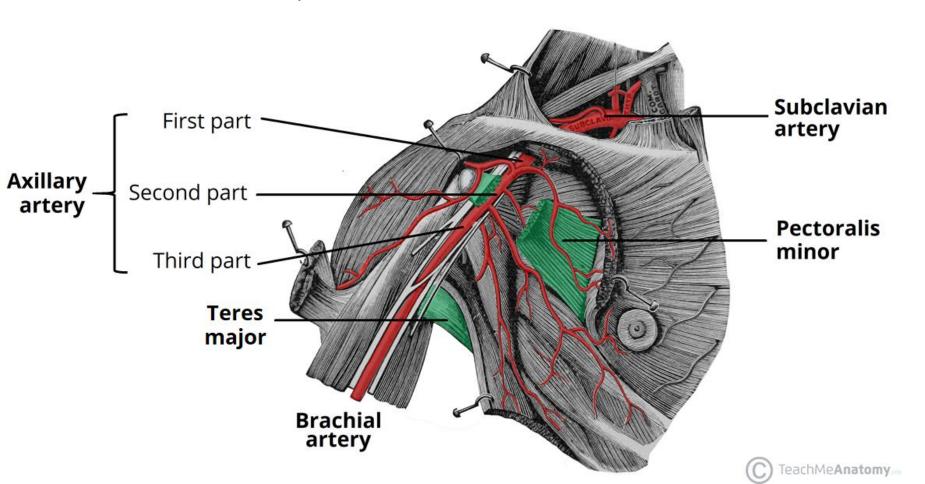


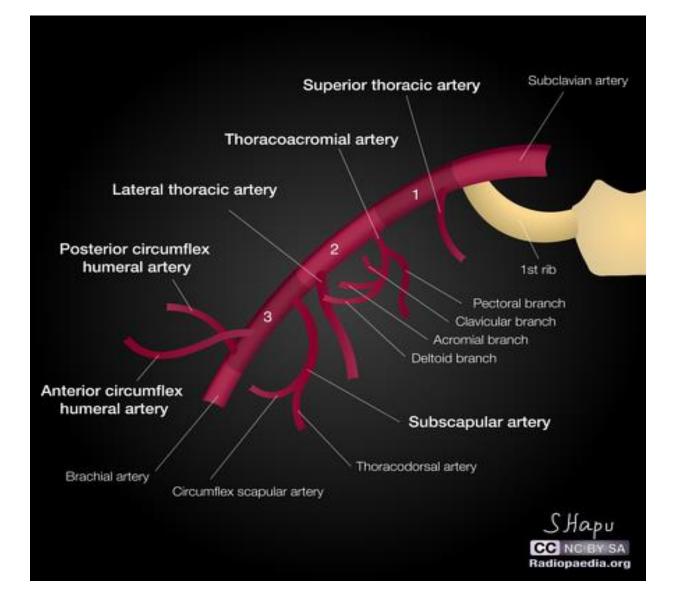
Axillary Artery

START: AT the lateral border of the 1st rib as a continuation of the subclavian.

END: AT the lower border of the <u>teres major muscle</u>.

- ❖ It continues as the **BRACHIAL ARTERY**.
- ❖ The **PECTORALIS MINOR MUSCLE** crosses in front of the axillary artery
- ❖ IT divides it into three parts





Third Part of the Axillary Artery

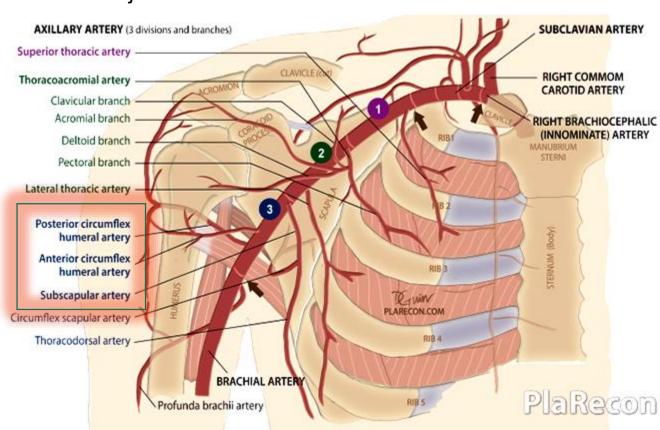
START: The <u>lower border</u> of the pectoralis

minor

END: The lower border of the teres major

Branches of the Axillary Artery From the third part:

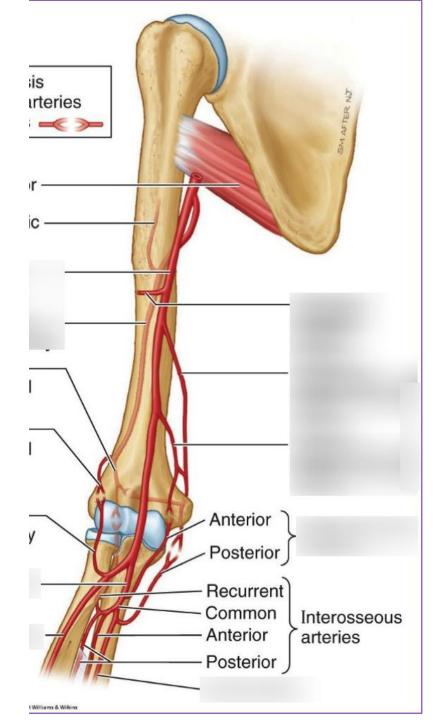
- The subscapular artery runs along the lower border of the subscapularis muscle.
- 2. The anterior and posterior circumflex humeral arteries



Brachial Artery

START: at the lower border of the teres major muscle as a continuation of the axillary artery.

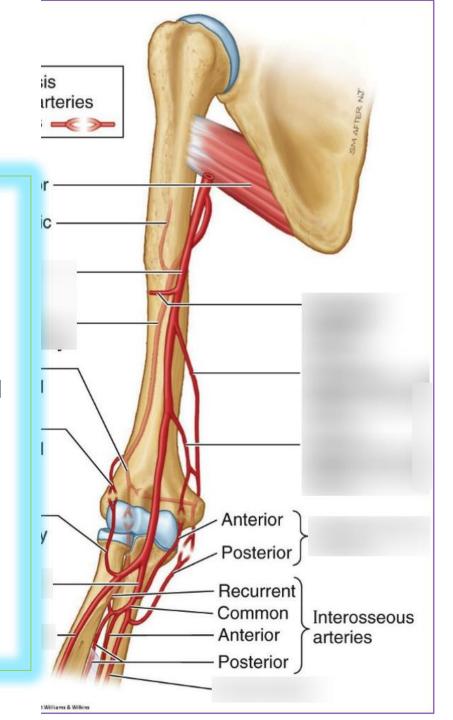
END: It terminates opposite the neck of the radius by dividing into the radial and ulnar arteries.



Brachial Artery

Branches

- Muscular branches to the anterior compartment of the upper arm
- ✓ The nutrient artery to the humerus
- ✓ The profunda artery arises near the beginning of the brachial artery and follows the radial nerve into the spiral
- ✓ groove of the humerus.
- ✓ The superior ulnar collateral artery arises near the middle of the upper arm and follows the ulnar nerve
- ✓ The inferior ulnar collateral artery arises near the termination of the artery and takes part in the anastomosis around the elbow joint

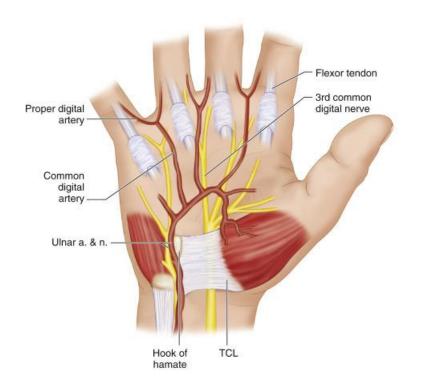


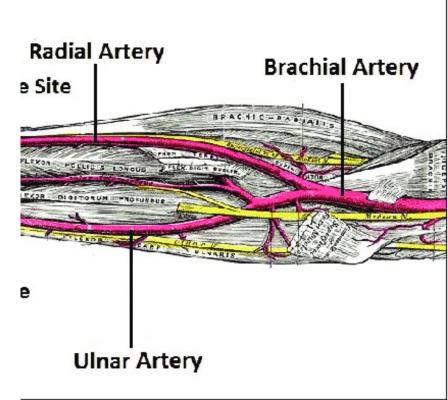
Arteries of the Anterior Fascial Compartment Of the ForearmUlnar Artery:

START: in the cubital fossa at the level of the neck of the radius

- > The ulnar artery is the larger of the two terminal branches of the brachial artery
- > It descends through the anterior compartment of the forearm
- retinaculum in company with the ulnar nerve

END: It ends by forming the **superficial palmar** arch.



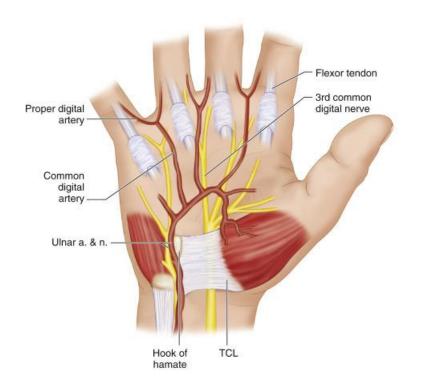


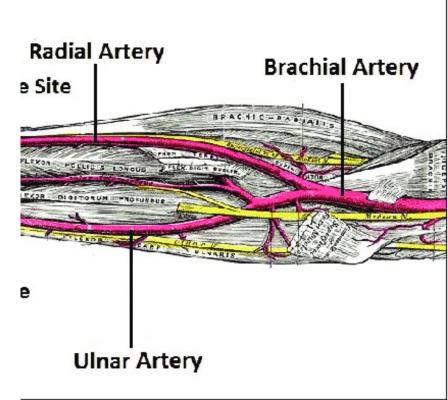
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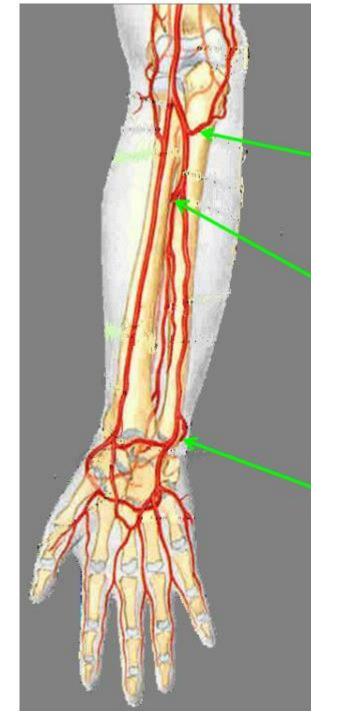
END: It ends by forming the **superficial palmar** arch.





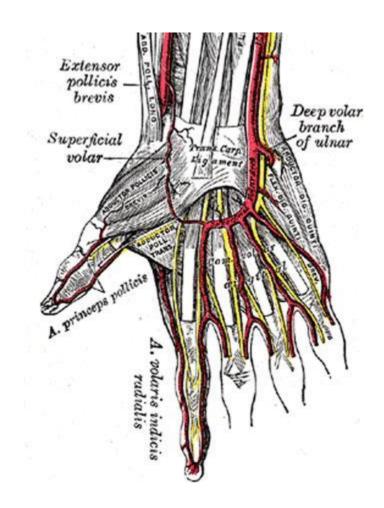
Branches OF ULNR ARTERY

- Muscular branches to neighbouring muscles
- Recurrent branches that take part in the arterial anastomosis around the elbow joint
- Branches that take part in the arterial anastomosis around the wrist joint
- The common interosseous artery, which arises from the upper part of the ulnar artery and after a brief course divides into the anterior and posterior interosseous arteries.
- → The interosseous arteries are distributed
- √ to the muscles lying in front of and behind the interosseous membrane;
- ✓ they provide nutrient arteries to the radius and ulna bone.



The superficial palmar arch is a direct continuation of the ulnar artery

- ☐ The arch is completed on the lateral side by one of the branches of the radial artery.
- ☐The curve of the arch lies across the palm, level with the distal border of the fully extended thumb.
- ☐OTHER BRANCHERS OF ULNAR ARTERY
 Four digital arteries arise from the convexity
 of the arch and pass to the fingers
- ☐The deep branch of the ulnar artery arises in front joins the radial artery to complete the deep palmar arch

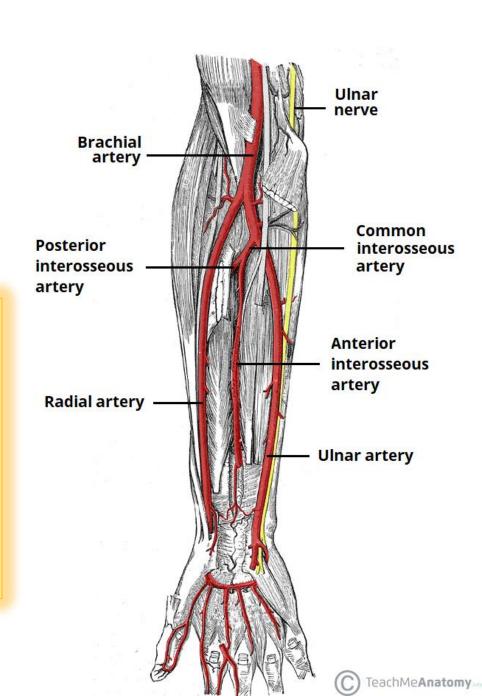


Radial Artery

- ☐ The radial artery is the smaller of the terminal branches of the brachial artery.
- □ **START:** It begins in the Cubital fossa at the level of the neck of the radius
- END: The radial artery leaves the forearm by winding around the lateral aspect of the wrist to reach the posterior surface of the hand

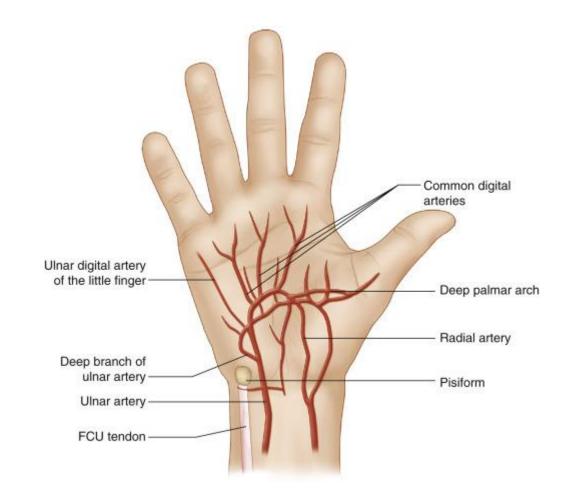
Branches in the Forearm

- ■■ Muscular branches to neighbouring muscles
- ■■ Recurrent branch, which takes part in the arterial anastomosis around the elbow joint
- ■■ Superficial palmar branch, which arises just above the wrist enters the palm of the hand,
- □and frequently joins the ulnar artery to form the superficialpalmar arch



Radial Artery

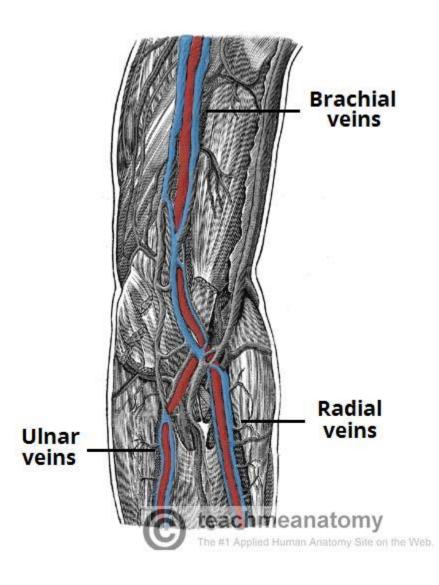
- ☐ The deep palmar arch is a direct continuation of the radial artery
- ☐The arch is completed on the medial side by the deep branch of the ulnar artery.
- ☐ The curve of the arch lies at a level with the proximal border of the extended thumb.



The radial artery mainly forms the deep palmar arch, while the ulnar artery mainly forms the superficial palmar arch

UPPER LIMB'S Veins

- ☐ The veins of the upper limb can be divided into two groups: superficial and deep.
- ☐ The DEEP VEINS comprise the venae comitantes, which accompany all the large arteries, <u>usually in pairs</u>, and the axillary vein.
- ☐ Superficial and deep palmar arterial arches are accompanied by superficial and deep palmar venous arches, receiving corresponding tributaries.



SUPERFICIAL VEIN

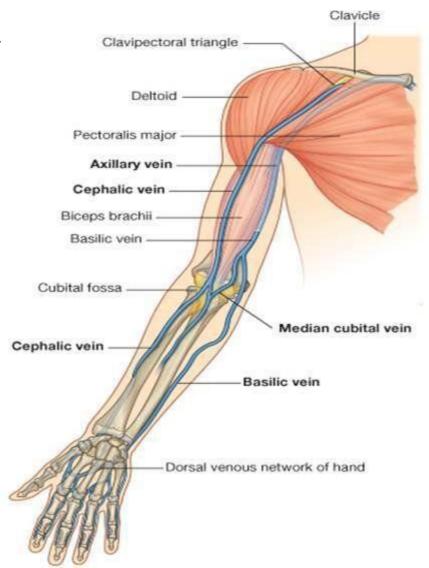
- ☐The network of superficial veins can be seen or the dorsum of the hand
- ☐ The network drains upward into

The:

- > LATERAL CEPHALIC VEIN
- > and a MEDIAL BASILIC VEIN.
- The cephalic vein crosses the anatomic

snuffbox

- □ It ascends into the arm and runs along the lateral border of the biceps.
- ☐ It ends by piercing the deep fascia in the **deltopectoral triangle** and enters the **axillary vein.**
- d repeatedly clench and relax the fist. By this means, the veins become distended with blood.



SUPERFICIAL VEIN

- The basilic vein can be traced from the dorsum of the hand around the medial side of the forearm
- IT reaches the anterior aspect just below the elbow
- It pierces the deep fascia at about the middle of the arm.

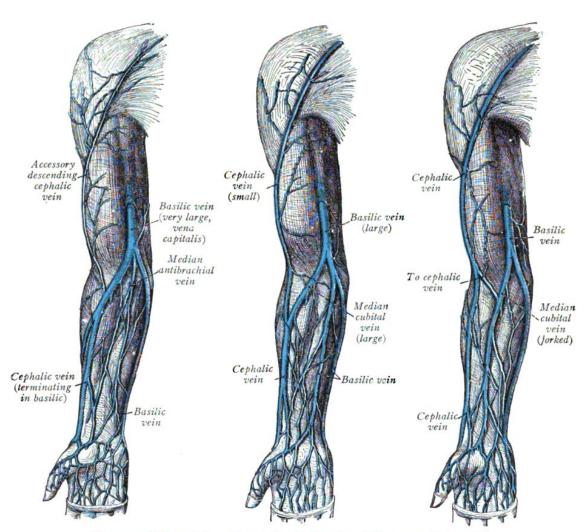


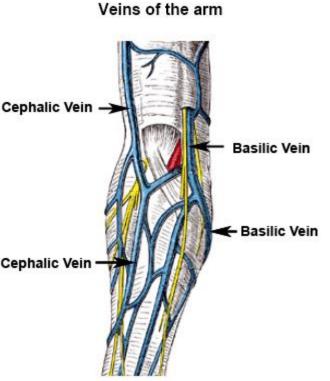
Fig. 597.—The most frequent variations in the veins of the forearm (schematic).

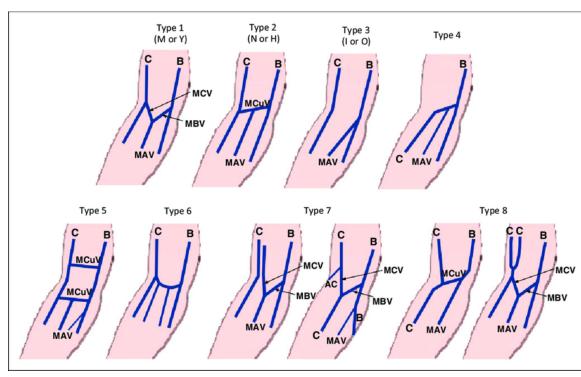
THE MEDIAN CUBITAL VEIN

- ☐ The median Cubital vein (or median cephalic and median basilic veins)

 LINKS the cephalic and basilic veins in the

 cubital fossa
- ☐ (a branch of the cephalic vein in the Cubital fossa, runs upward and medially and joins the basilic vein.
- ☐ In the Cubital fossa, the median Cubital vein *crosses in front* of the brachial artery and the median nerve, but it is *separated from* them by the bicipital aponeurosis.





تَعَلُّم الإتمام..

أن تُتِمَّ ما بدأت، وتُنجز ما خَطَوت، وتُكمل ما خَطَطتَ له! لا تكن مبتورًا، منقوصًا، أشتاتًا هنا وهناك، في الطّريق ستختلف الرّؤىٰ، ستتغيّر الأحداث، قد تَترُك أمرًا وتأخذ آخر، لا تنسَ؛ بعضُ التَّرك إتمام، لكن أدرِك متى تترك، ومتى تُمسك، متى تُكمل ومتى تقف.

- قصي عاصم العسيلي