



Anatomy Team

433

**King Saud University
College of medicine
Musculoskeletal Block**

Helping file for the upper limb arteries and veins

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Region	Name of the Artery	Origin		Branches	Continue as..	
In the Chest	Subclavian artery	Right	Brachiocephalic trunk		Axillary artery	
		Left	Arch of aorta			
In the Axilla	Axillary artery	When the subclavian arteries cross the lateral edge of the 1st rib, they enter the axilla, and are called axillary artery .		First part	Highest thoracic artery.	Brachial artery
				Second part	1- Thoraco-acromial artery. 2- Lateral thoracic artery.	
				Third part	1- Subscapular artery. 2- Anterior humeral circumflex artery. 3- Posterior humeral circumflex artery.	
In the Upper arm	Brachial artery	When the axillary artery reaches the lower border of the teres major, it becomes the brachial artery .		1- Profunda brachii artery. 2- Superior ulnar collateral artery. 3- Inferior ulnar collateral artery. 4- Nutrient branches to the humerus. 5- Muscular. <u>Terminal branches:</u> Ulnar artery & Radial artery.	Dividing into Radial & Ulnar arteries	
In the Forearm	The Ulnar artery	In the distal region of the cubital fossa, the brachial artery divides into the radial artery and the ulnar artery.		<u>In the Forearm:</u> 1- Muscular. 2- Recurrent branch for anastomosis around the elbow joint. 3- common interosseous artery which give anterior and posterior interosseous arteries. 4- branch to anastomoses around the wrist joint. <u>In the Hand:</u> Deep palmar branch.	Superficial palmar arch	
	The Radial artery			<u>In the Forearm:</u> 1- muscular. 2- recurrent branch for anastomosis around the elbow joint. 3- superficial palmar branch, joins the ulnar artery to form the superficial palmar arch. <u>In the Hand:</u> 1- Arteria radialis indicis. 2- Arteria princeps policis.	Deep palmar arch	
Region	Name of the artery	origin	Branches	Continue as..		
In the Hand	Superficial palmar arch	Direct continuation of the ulnar artery, completed by branch from the radial artery.	Digital arteries.			
	Deep palmar arch	The radial artery anastomoses with the deep palmar branch of the ulnar artery, forming the deep palmar arch	<u>Superiorly:</u> to share in anastomosis around the wrist joint. <u>Inferiorly:</u> to join branch of the superficial palmar arch.			

Veins

	Location	Name of the vein		Origin	Drains into..	
Superficial Veins	Immediately beneath the skin, in the superficial fascia.	Dorsal venous arch(Net work)	Dorsal digital vein	Lies on the dorsum of the hand, in the subcutaneous tissue, proximal to the metacarpophalngeal joint.	Dorsal digital vein drains into Dorsal metacarpal vein	Laterally: Cephalic vein Medially: Basilica vein
			Dorsal metacarpal vein			
		Cephalic Vein	Begins as a radial continuation of the dorsal venous network.		Axillary vein	
		Basilica Vein	Arise from the medial side of the dorsal venous arch of hand.		Brachial vein or Axillary vein	
		Medial capital vein	Links Cephalic Vein & Basilica Vein in the cubital fossa.			
Deep veins	Location	Name of the vein		Origin	Receives	Continue as..
	Beside the arteries with the same name.	Axillary vein		Continuation of Basilica Vein	Brachial vein & close to its termination in the Cephalic Vein	Subclavian vein
		Subclavian vein		Continuation of Axillary vein		Unite with the internal jugular to form the Brachiocephalic vein.