Cassidy Messer

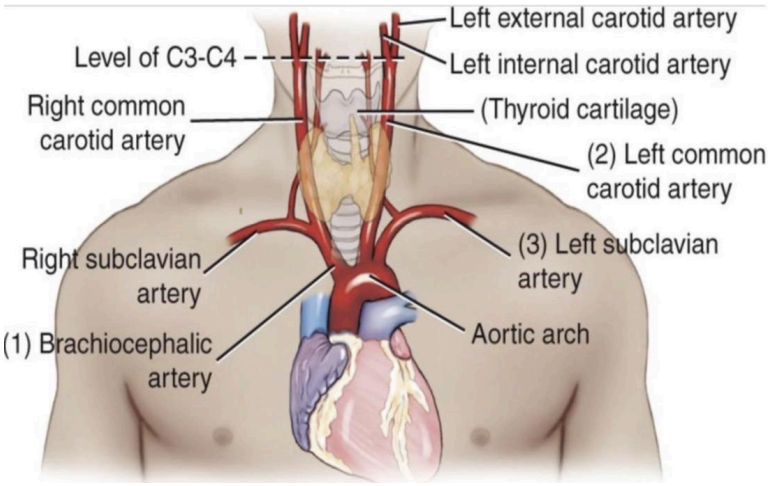
Joti Gill

The Major Blood Vessels of the Aortic Arch #3.

28 July 2026

The Major Blood Vessels of the Aortic Arch #3.

There are 3 main branches of the Aortic Arch. Brachiocephalic artery is the first and largest branch, it supplies blood to the right side of the head, neck and upper limb. It divides into the right and left common carotid artery. The common carotid artery is the second branch of the aortic arch. It supplies blood to the head, neck and brain, face and neck tissues. The subclavian artery branched into right and left sides. It's the third branch of the aortic arch. It supplies blood to the upper limbs, neck, thorax and brain.



In a Thoracic Angiography the patient is positioned in a 45 degree LAO to see the arch of aorta free of superimposition. The goal is to see the ascending aorta,the proximal brachiocephalic, left common carotid, left subclavian arteries and descending aorta. This position is crucial for visualizing the left anterior descending artery and its bifurcations. This view minimizes intra- and inter-arterial overlap, providing a clearer view of the coronary arteries and their anatomy.