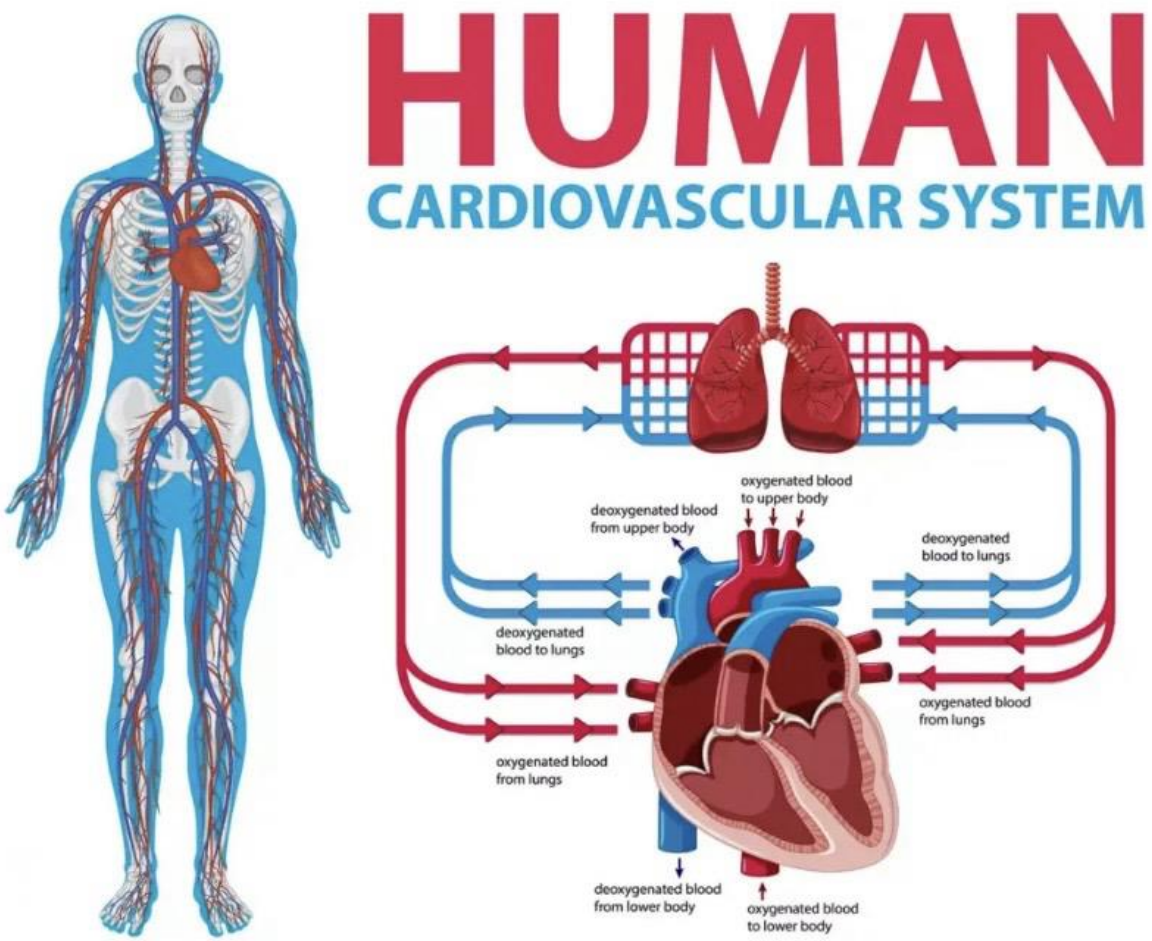
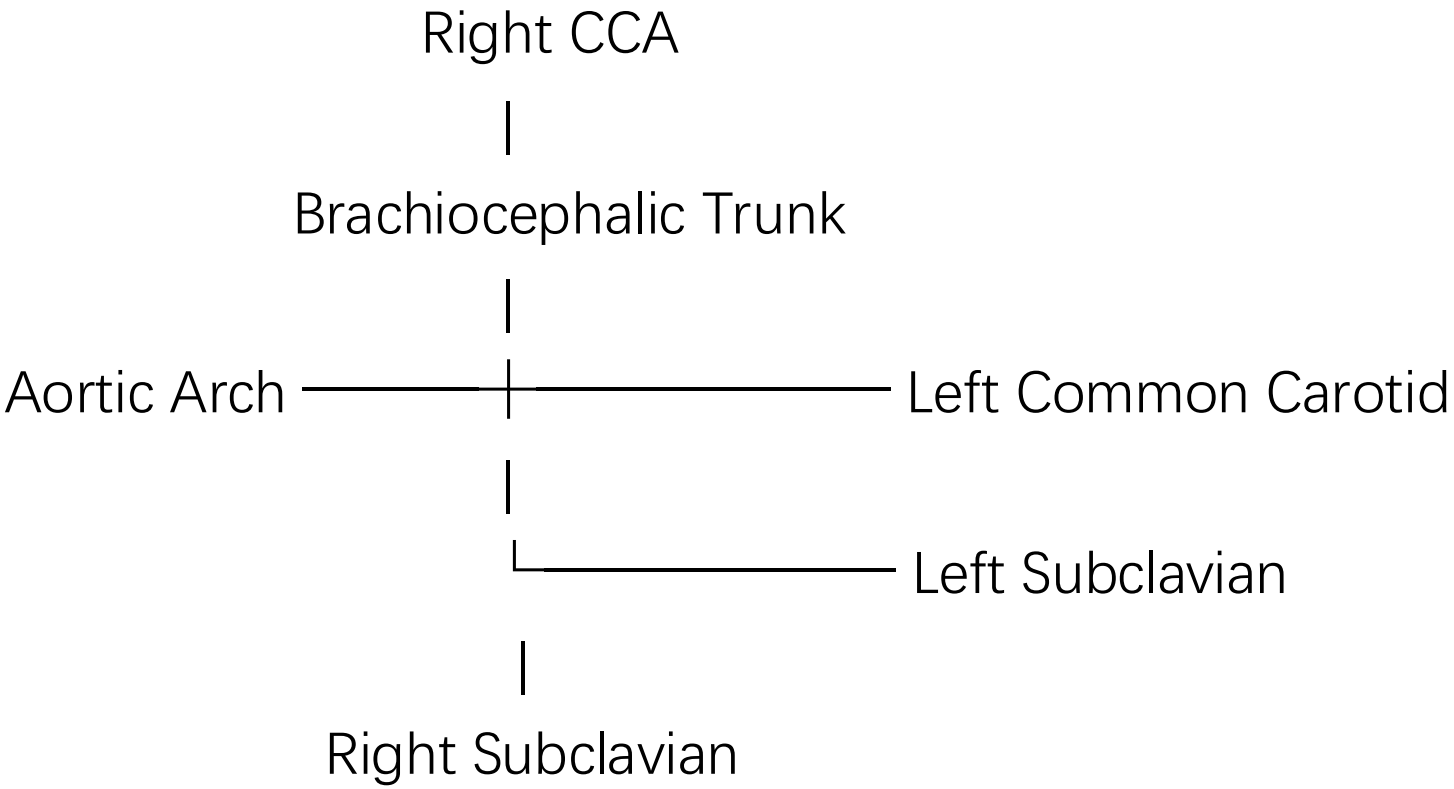
Student name: Ulrica Sun

MRAD 302 Specialized Imaging 2 Reflection #3 Topic: The Major Blood Vessels of the Aortic Arch



1. List the major blood vessels of the aortic arch and provide a sketch/diagram demonstrating these vessels.

The aortic arch has three major branches that supply blood to the head, neck, and upper limbs. From right to left, these branches are the **brachiocephalic trunk**, the **left common carotid artery**, and the **left subclavian artery**. The brachiocephalic trunk further divides into the **right common carotid artery** and the **right subclavian artery**.



Learning the anatomy of these vessels has helped me understand how blood is distributed from the heart to the upper body and why this knowledge is important during angiographic procedures.

2. Why is the LAO position beneficial during thoracic angiography?

The Left Anterior Oblique (LAO) position is beneficial during thoracic angiography because it provides a clearer view of the aortic arch and its major branches. This projection reduces overlapping of the blood vessels, making it easier to identify the brachiocephalic trunk, left common carotid artery, and left subclavian artery. Improved visualization allows the radiologist to assess the vessels more accurately and safely guide catheters during angiographic procedures. As a future medical imaging technologist, I understand that proper patient positioning is essential for obtaining high-quality diagnostic images while minimizing repeat exposures and improving patient care. This reflection reinforced the importance of combining strong anatomical knowledge with correct positioning techniques to achieve the best imaging results.


THANKYOU