

CARDIAC, PULMONARY, AND SYSTEMIC CIRCULATIONS

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CARDIAC CIRCULATION

- blood supply to heart muscle itself
- heart uses 80% of oxygen brought to it
- heart muscle cells are closer to capillaries (10 um) than all other cells are (60-70 um)
- heart muscle is supplied by right and left ***coronary arteries***

PULMONARY CIRCULATION

- brings blood to/from the lungs
- includes ***pulmonary arteries/veins***

SYSTEMIC CIRCULATION

- brings blood mainly from ***aorta*** and its branches to the various organs/tissues of the body
- includes arteries such as:
 - carotid artery*** (blood to head)
 - iliac artery*** (blood to leg)
 - renal artery*** (blood to kidney)
- also includes veins such as:
 - **jugular vein** (blood from head)
 - **subclavian vein** (blood from shoulder)
 - **femoral vein** (blood from leg)