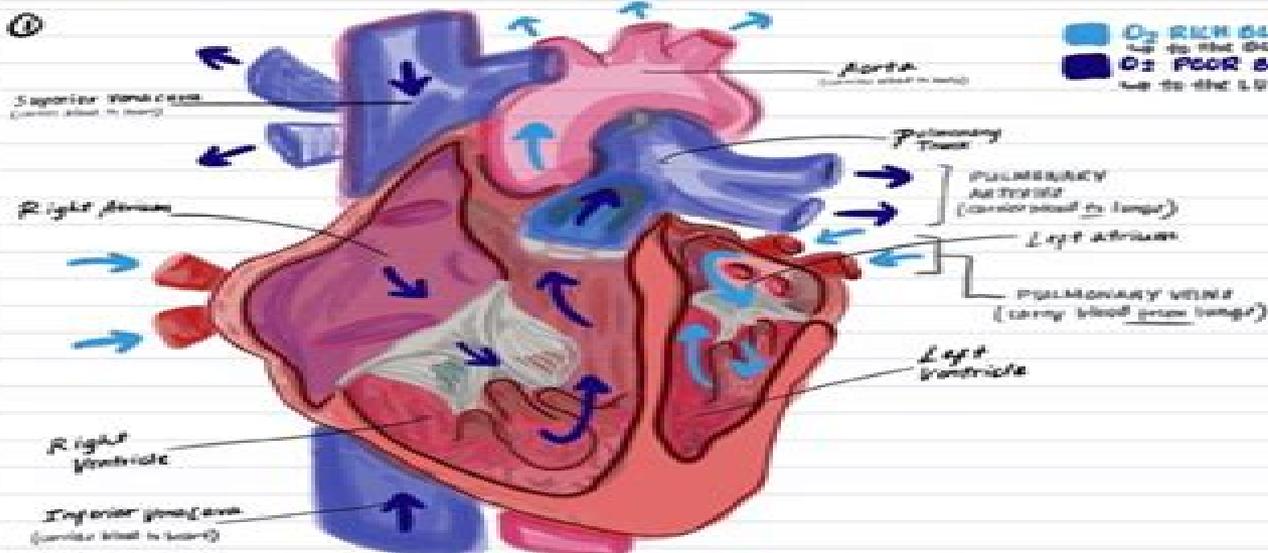


# MODULE 6: CARDIOVASCULAR ANATOMY & PHYSIOLOGY

**O<sub>2</sub> RICH BLOOD**  
 ↳ to the BODY  
**O<sub>2</sub> POOR BLOOD**  
 ↳ to the LUNGS



1 IDENTIFY THE FOLLOWING STRUCTURE FROM A FIGURE OF THE HEART:

- LEFT & RIGHT ATRIUM
- LEFT & RIGHT VENTRICLE
- PULMONARY TRUNK
- THE AORTA
- SUPERIOR VENA CAVA

2 NAME THE TWO CIRCUITS OF THE CARDIOVASCULAR SYSTEM  
 & HOW DO THEY DIFFER?

## TYPES OF BLOOD VESSELS

1 TYPES OF BLOOD VESSELS THAT BLOOD TRAVEL THROUGH AFTER LEAVING HEART.

2 AT WHICH TYPE OF BLOOD VESSELS DOES GAS EXCHANGE OCCUR?

3 THE CARDIOVASCULAR SYSTEM DELIVERS OXYGEN-RICH BLOOD TO THE TRILLIONS OF CELLS IN YOUR BODY. HOW DO THE CARDIAC CELLS OF YOUR HEART GET THE OXYGEN THEY NEED TO STAY ALIVE?

4 Pathway of blood (starting from largest artery) **AORTA & VENA CAVA**

5 What is CELLULAR RESPIRATION and what is it for?

## 1 PULMONARY CIRCUIT

- moves blood FROM the ♡ to the LUNGS BACK to the ♡

## 2 SYSTEMATIC CIRCUIT

- moves blood FROM the ♡ to ALL body parts and BACK to the ♡.

## 3 ARTERIES

> carry blood AWAY from the ♡

4 Cardiac cells, like all other cells in the body, require oxygen to survive and function properly. The heart itself, however, does not extract oxygen from the blood that it pumps. Instead, the **coronary arteries**, which are small blood vessels that wrap around the outside of the heart, supply the heart muscle (myocardium) with the oxygen-rich blood it needs to function.

- 1 The circulatory system (cardiovascular system) pumps blood from the heart to the lungs to get oxygen.
- 2 Then, the heart sends oxygenated blood to the rest of the body (cardiac cells).

- 1 **AORTA** - largest artery
- 2 **VENA CAVA** - largest vein

## PATHWAYS:

**AORTA → ARTERIES → ARTERIOLES → CAPILLARIES → VENULES → VEINS → SUPERIOR & INFERIOR VENA CAVA**

1 THE PROCESS THROUGH WHICH CELLS BREAK DOWN ORGANIC MOLECULES, TYPICALLY GLUCOSE, TO PRODUCE ENERGY IN THE FORM OF PHOSPHORIC ANHYDRATE (ATP), essential for the basic functions of cells, and overall, the organism.  
 > stages: glycolysis, citric acid cycle (Krebs cycle), and oxidative phosphorylation (electron transport chain).

**SUMMARY:** Identifying the parts of the human heart and understanding the pathways and circuits involved necessary to its functions: transportation, gas exchange, nutrient delivery, waste removal, regulation. The importance of cellular respiration that ensures all cells to receive the necessary oxygen & nutrients, and that waste products are also removed.

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**David Baud**



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