

The heart and circulation

What is a double circulatory system?

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What does the vena cava do?

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What does the pulmonary artery do?

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What does the pulmonary vein do?

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What does the aorta do?

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How do you calculate heart rate from cardiac output and stroke volume?

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What is the function of the heart valves?

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Why is the left ventricle wall thicker than the right?

Carries deoxygenated blood from the body to the right atrium.

One circuit takes blood from the heart to the lungs and back, the other from the heart to the body and back.

Carries oxygenated blood from the lungs to the left atrium.

Carries deoxygenated blood from the right ventricle to the lungs.

Heart rate = cardiac output ÷ stroke volume.

Carries oxygenated blood from the left ventricle to the body.

It pumps blood at higher pressure around the whole body. The right ventricle only pumps blood to the lungs.

To prevent backflow so that blood flows in one direction.

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Why are the ventricle walls thicker than the atrium walls?

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What is the equation for cardiac output?

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What is stroke volume?

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What is cardiac output?

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What are the units of cardiac output?

Cardiac output = stroke volume $\times$ heart rate.

The ventricles pump blood out of the heart, further than the atria pump it.

The volume of blood pumped out of the heart per minute.

The volume of blood pumped out of the heart in each beat.

cm³ per minute, if heart rate is in beats per minute and stroke volume in cm³.