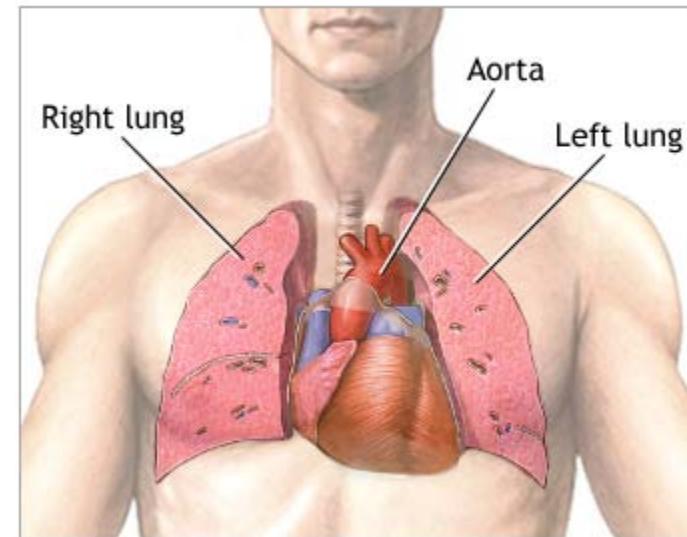


The Human Heart and Blood Flow

The Human Heart

- * Located in the *Thoracic Cavity*, between the two lungs and slightly to the left
- * About the size of a clenched fist.
- * Weighs around a $\frac{1}{2}$ pound



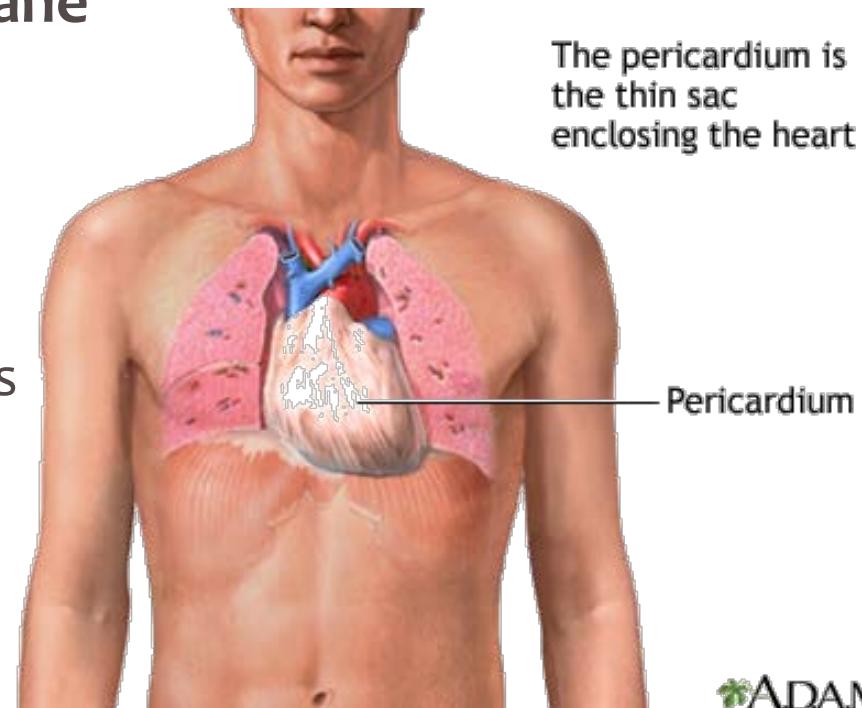
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Pericardium: Protecting the Heart

- * Pericardium – protective membrane around the heart

- * Made up of 3 layers:

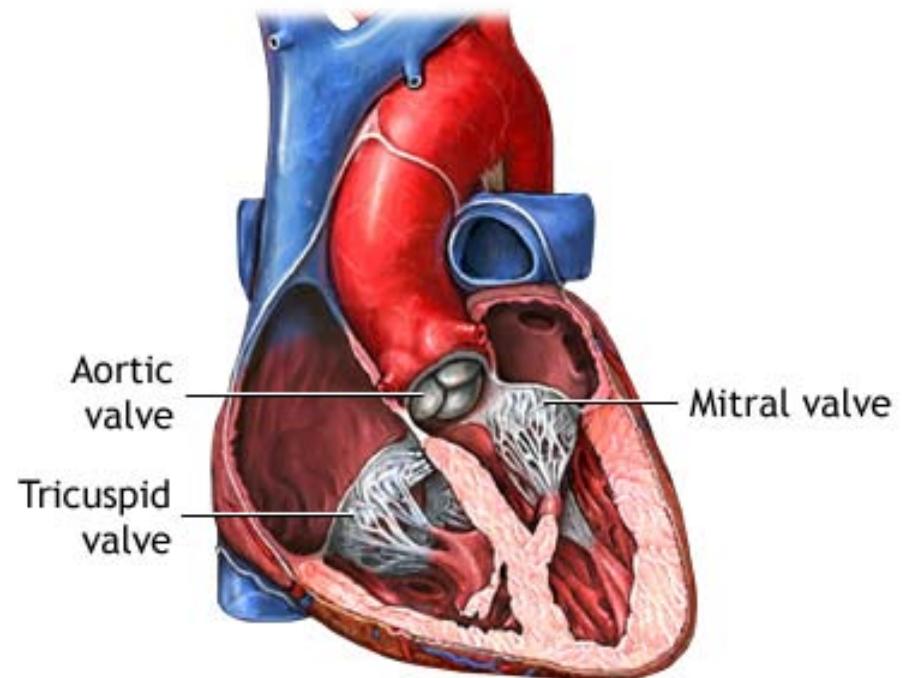
- * Epicardium – outermost layer, reduces friction
- * Myocardium – thick layer, contains cardiac muscle
- * Endocardium – innermost layer, contact with blood



Heart Pumping

Heart pumps blood through the body through contraction.
What do valves do for our heart?

MRI of a Human Heart

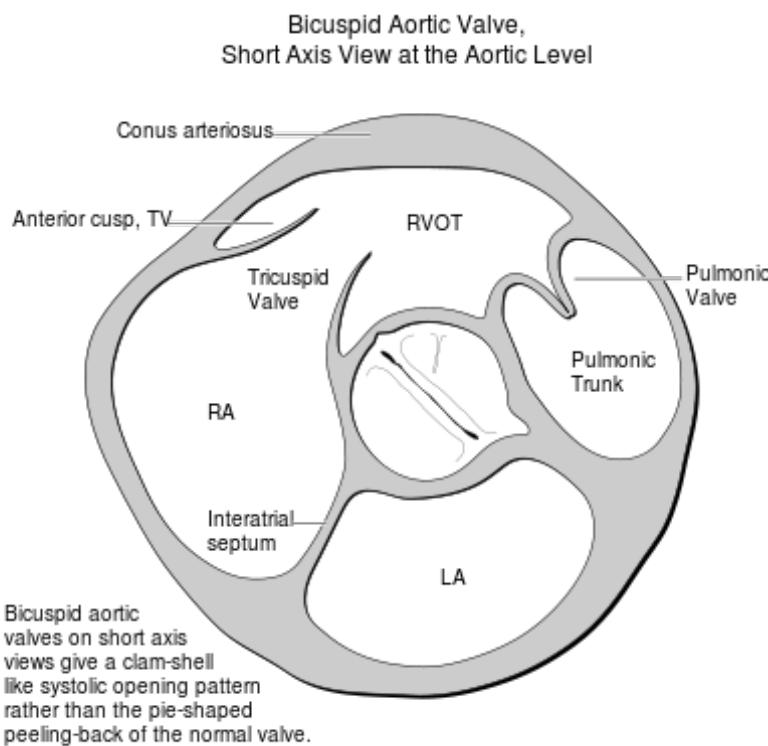


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Heart Valves

One-way valves are vital to move blood in the correct direction

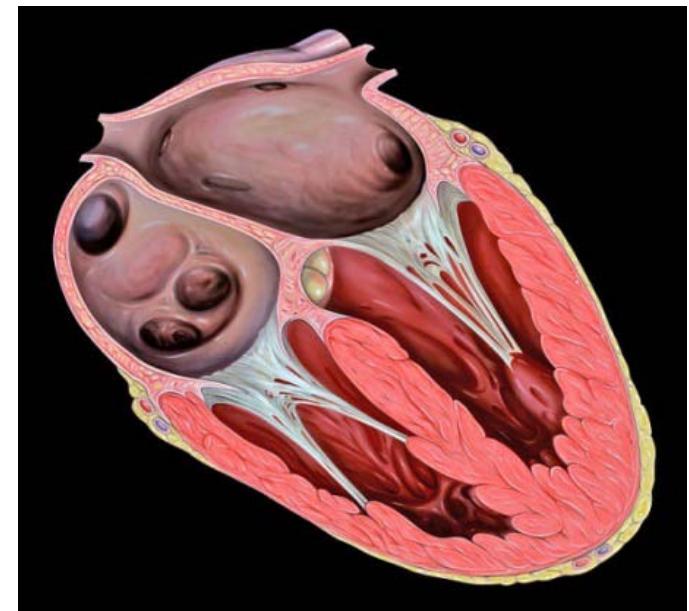
Cross section of the heart, focusing on the Aortic Valve



2006 Patrick J. Lynch, medical illustrator

http://commons.wikimedia.org/wiki/File:Heart_bicuspid_aortic_valve.svg

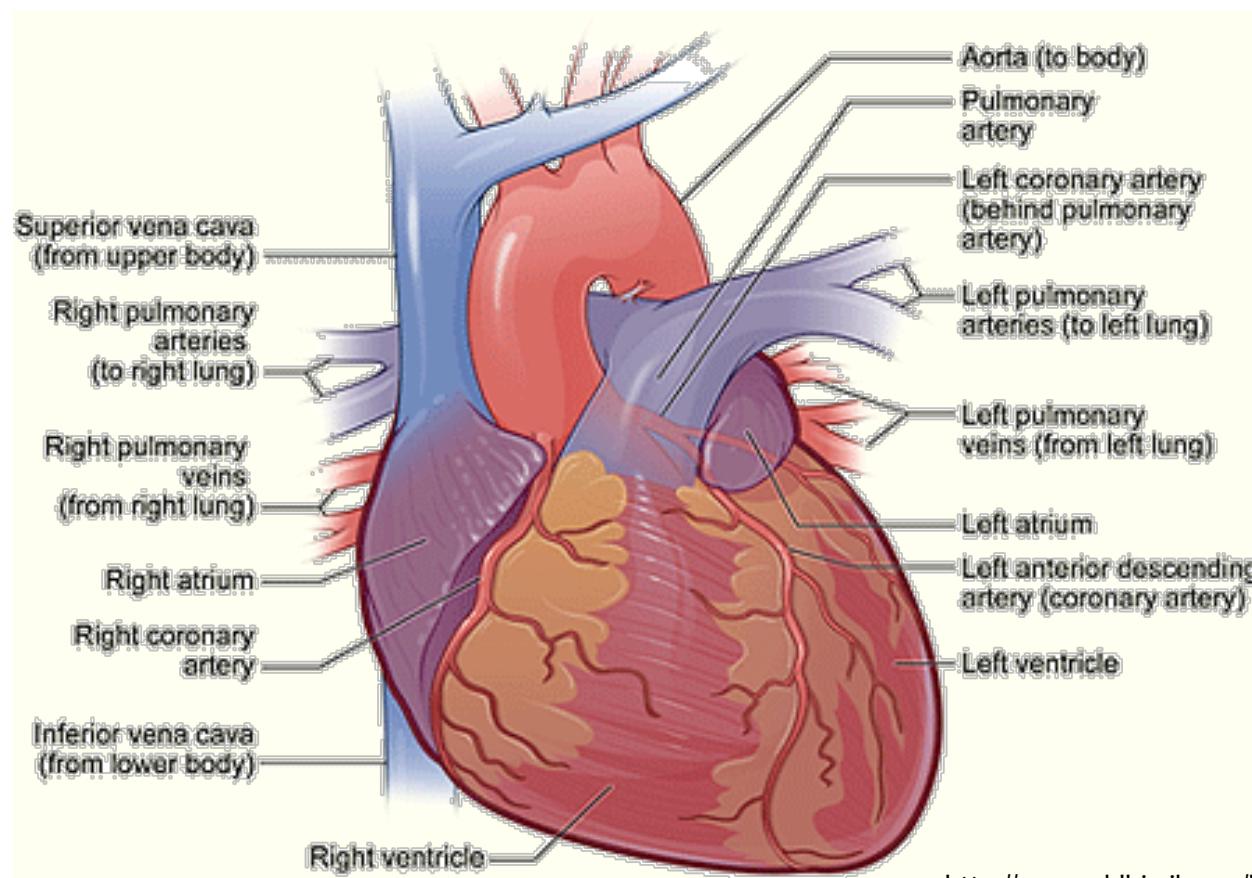
Tricuspid Valve



2006 Patrick J. Lynch, medical illustrator
http://commons.wikimedia.org/wiki/File:Heart_te_tricuspid_valve.jpg

The Heart and the Path of Blood

Exterior View of the Heart



The Heart and the Path of Blood

Interior View of the Heart, with the path of the blood

