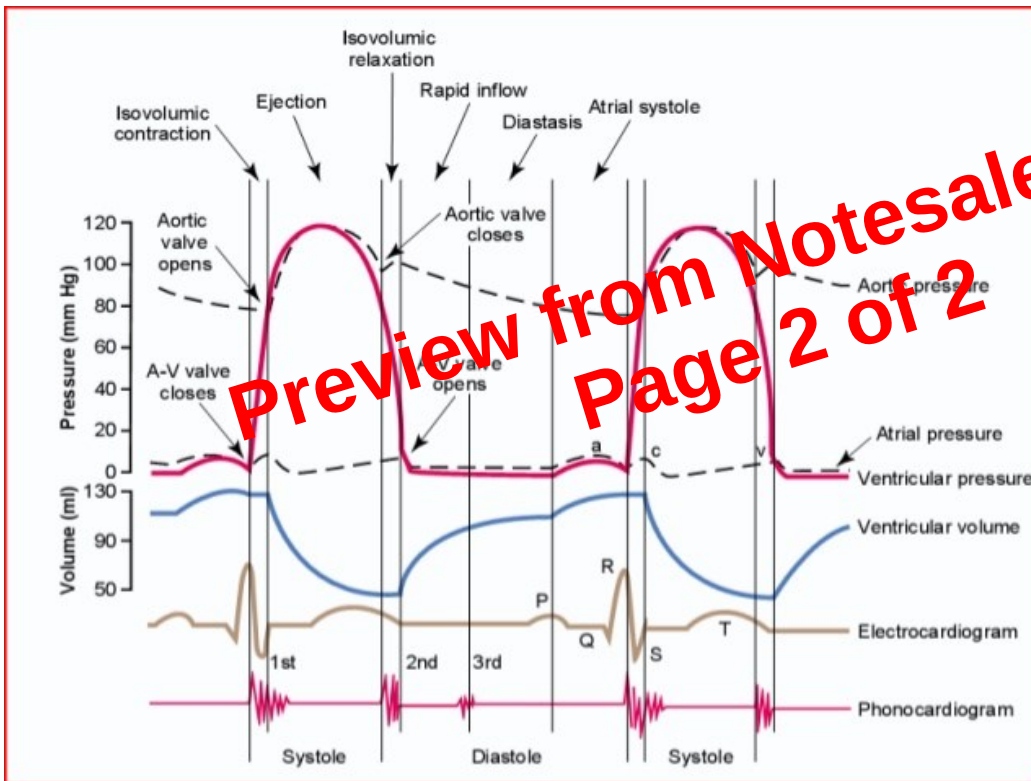


Pressure and volume changes of the heart:

Because blood is confined to vessels, the pressure within them can be maintained and regulated.

The Cardiac Cycle



Cardiac Output:

This is the volume of blood pumped by one ventricle of the heart in one minute. Usually measured in $\text{dm}^3\text{min}^{-1}$ and depends upon the heart rate and stroke volume.

$$\text{Cardiac Output} = \text{heart rate} \times \text{stroke volume}$$

Electrocardiogram (ECG):

During the cycle, the heart goes under a number of electrical changes. These are related to the waves of electrical activity created by the sinoatrial node and the heart's response to these.

An ECG can determine heart health and in a normal ECG there is a pattern of large peaks and small troughs that repeat identically at regular intervals.

