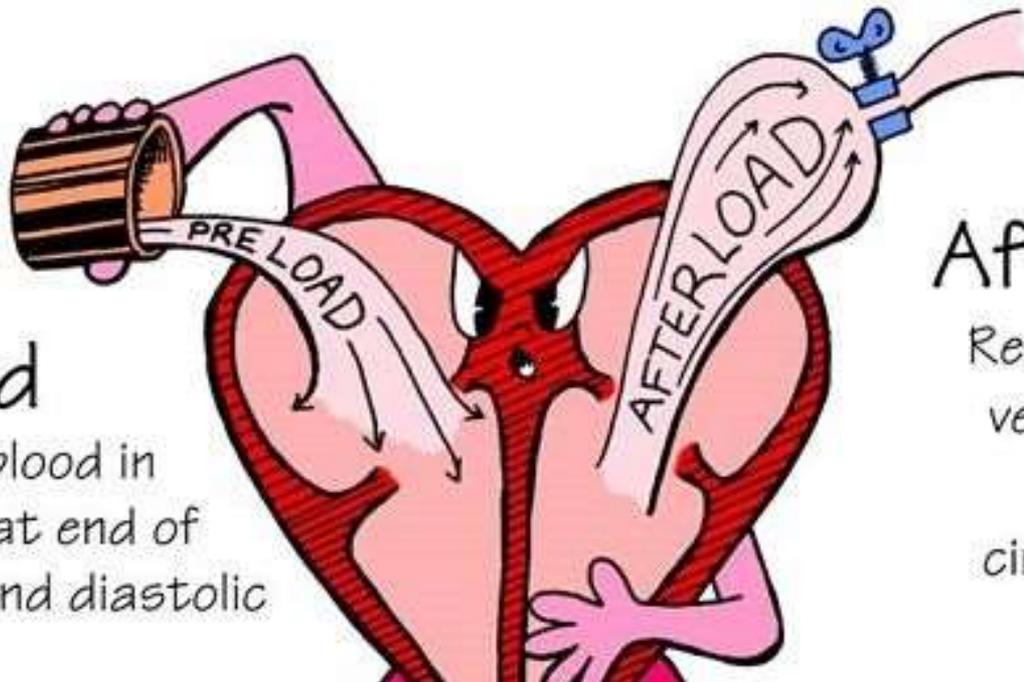


PRELOAD AND AFTERLOAD

Preload

Volume of blood in ventricles at end of diastole (end diastolic pressure)



Afterload

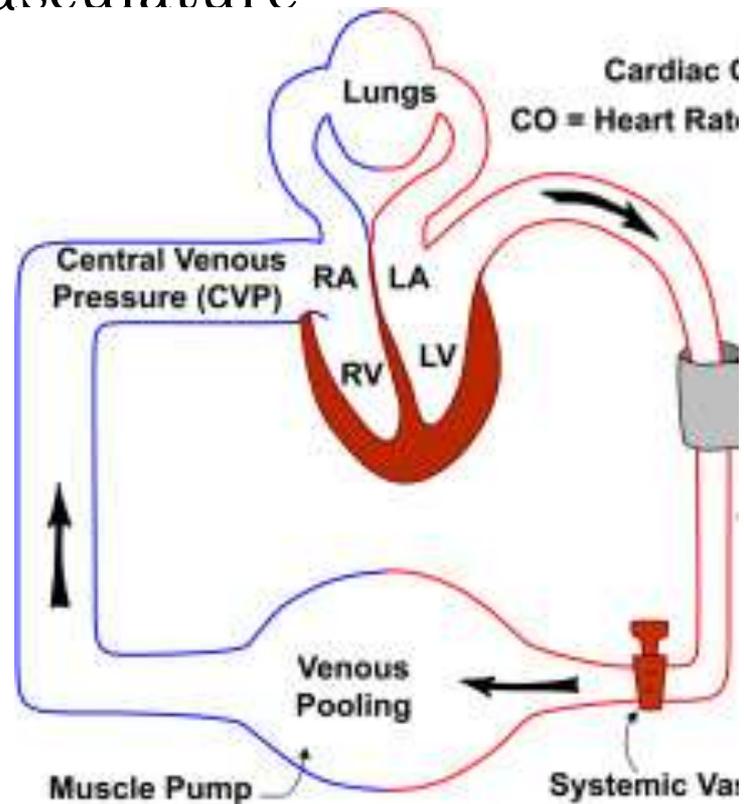
Resistance left ventricle must overcome to circulate blood



- *Preload* is the initial stretching of the cardiac myocytes (muscle cells) prior to contraction. It is related to ventricular filling.
- *Afterload* is the 'load' to which the heart must pump against
- *Contractility* is the intrinsic strength of the cardiac muscle

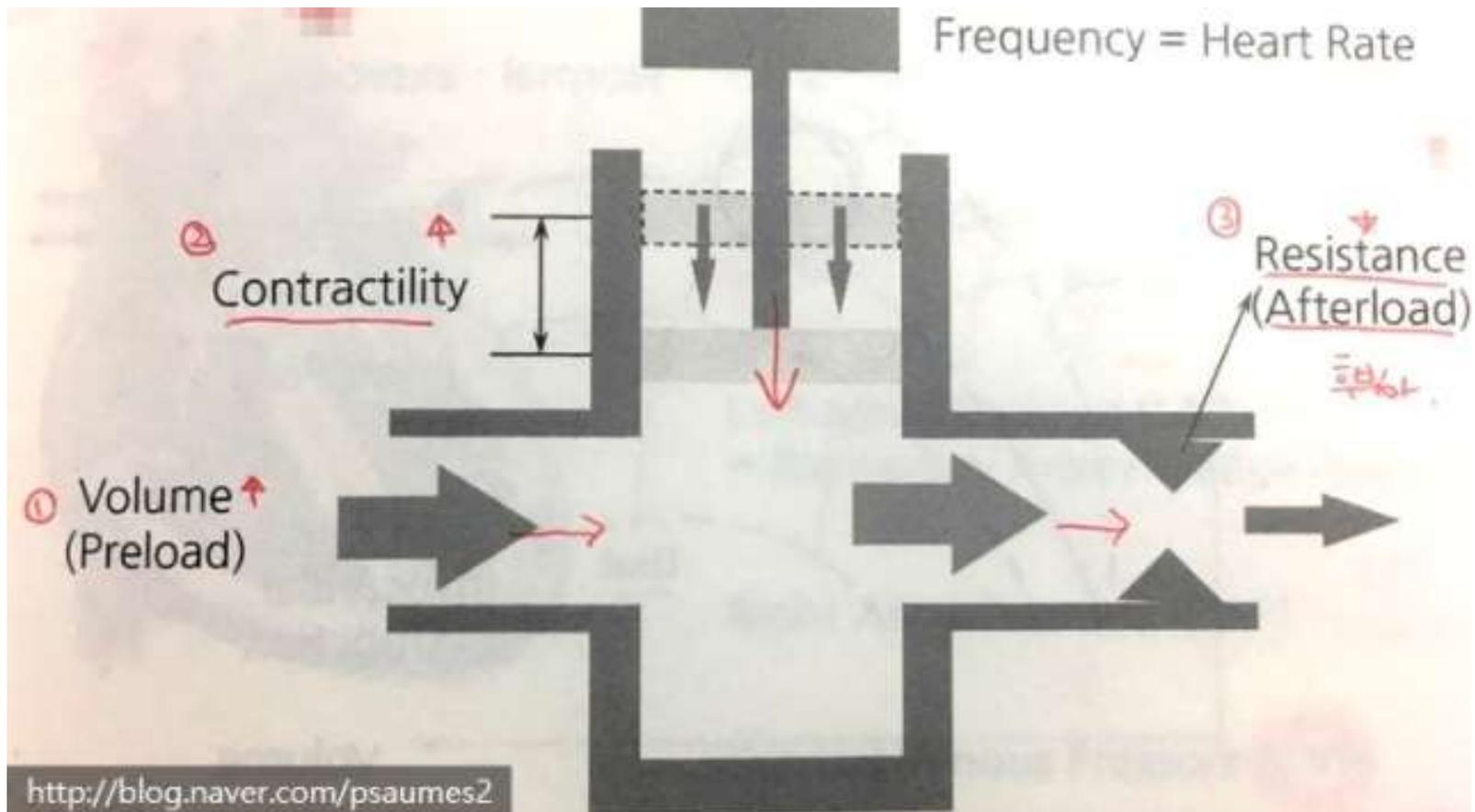


- Systemic vascular resistance (SVR) is the resistance to blood flow offered by all of the systemic vasculature



Congestive heart failure

stage in which fluid builds up within the heart and causes it to pump inefficiently



- <https://youtu.be/zeSDuiTbM9o?t=86>

